Corridor Safety Assessment SR-9/SR-17/SR-59



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Introduction

The Eastern Hurricane Study Safety Audit conducted on the 4th and 5th of February 2008 included the review of three routes which are discussed in three separate sections;

- State Route 9
- State Route 17
- State Route 59

The numerous recommendations are outlined in this document and categorized as General, Priority 1, Priority 2, or Priority 3 recommendations. General recommendations discuss issues concerning the entire length of the facility. Priority 1 recommendations are short term improvements which are anticipated to significantly increase the safety in the respective locations. Priority 2 recommendations are medium-term improvements intended to improve upon safety measures already in place. Priority 3 recommendations are typically long-term improvements intended to address large-scale geometric problems.

The recommendations are provided in tables and include the mile post, waypoint, and description of each improvement. The improvements are categorized by type and a typical photo is provided where available. All of the photos taken during the field assessment are provided in the Appendix A.

Accident histories were used to identify high incidents of crash locations, particularly those of a repetitive nature. The histories are provided in Appendix B for the three roadways. Each crash is assigned a severity based on the most severe injury in the vehicle(s) based on the following criteria:

- Severity 1 Non-Injury
- Severity 2 Possible Injury
- Severity 3 Injury
- Severity 4 Incapacitating Injury
- Severity 5 Fatal

Crashes with severities 3 through 4 are shown on the maps provided in this document.

State Route 9 Recommendations MP 11-32.7

State Route 9 is a two-lane rural highway that runs from Laverkin in the west to Springdale in the east. A safety audit was completed on this facility on February 5, 2008. Figure 1 provides a map of the west portion of the route with the level 3, 4, and 5 crashes and the waypoints of the recommended improvements. Figure 2 shows the east potion of the route.

Crash History

The crash history for SR-9 shows 114 crashes for 2002 to 2005 resulting in an average of 28.5 crashes per year. The average accident rate is 0.75 accidents per million vehicle miles which is less than the 1.46 expected value. The severity index is an average of 2.00 which is higher than the expected index of 1.70. A detailed crashed history for this roadway is provided in Appendix B.

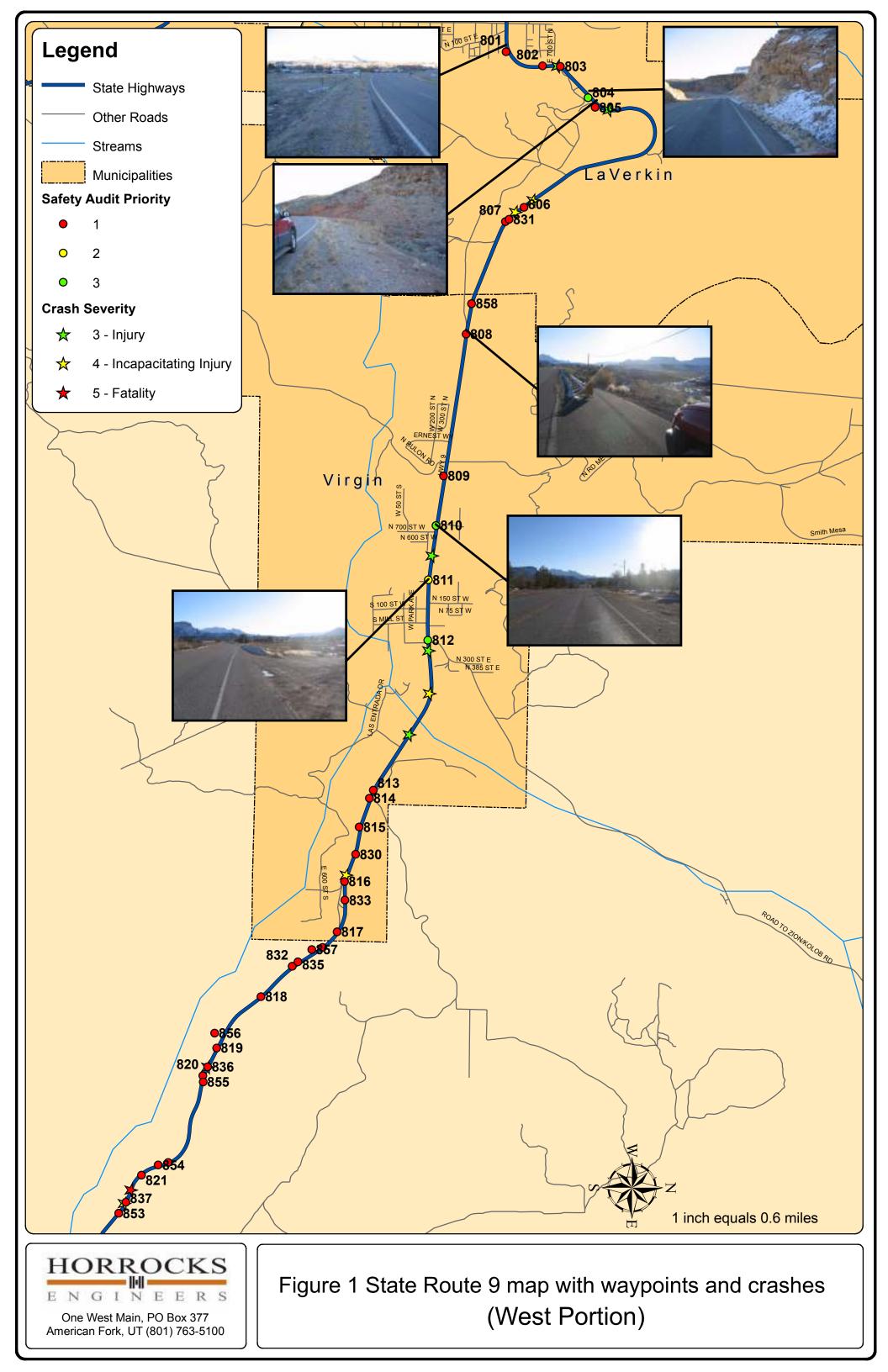
The most frequent accident type over the four year period was single vehicle collisions: a total of 60 (53%) of the crashes only involved a single vehicle. The second most frequent accident type was rear end collisions which consist of 14 (12%) crashes. The remaining crashes varied among 14 other accident types.

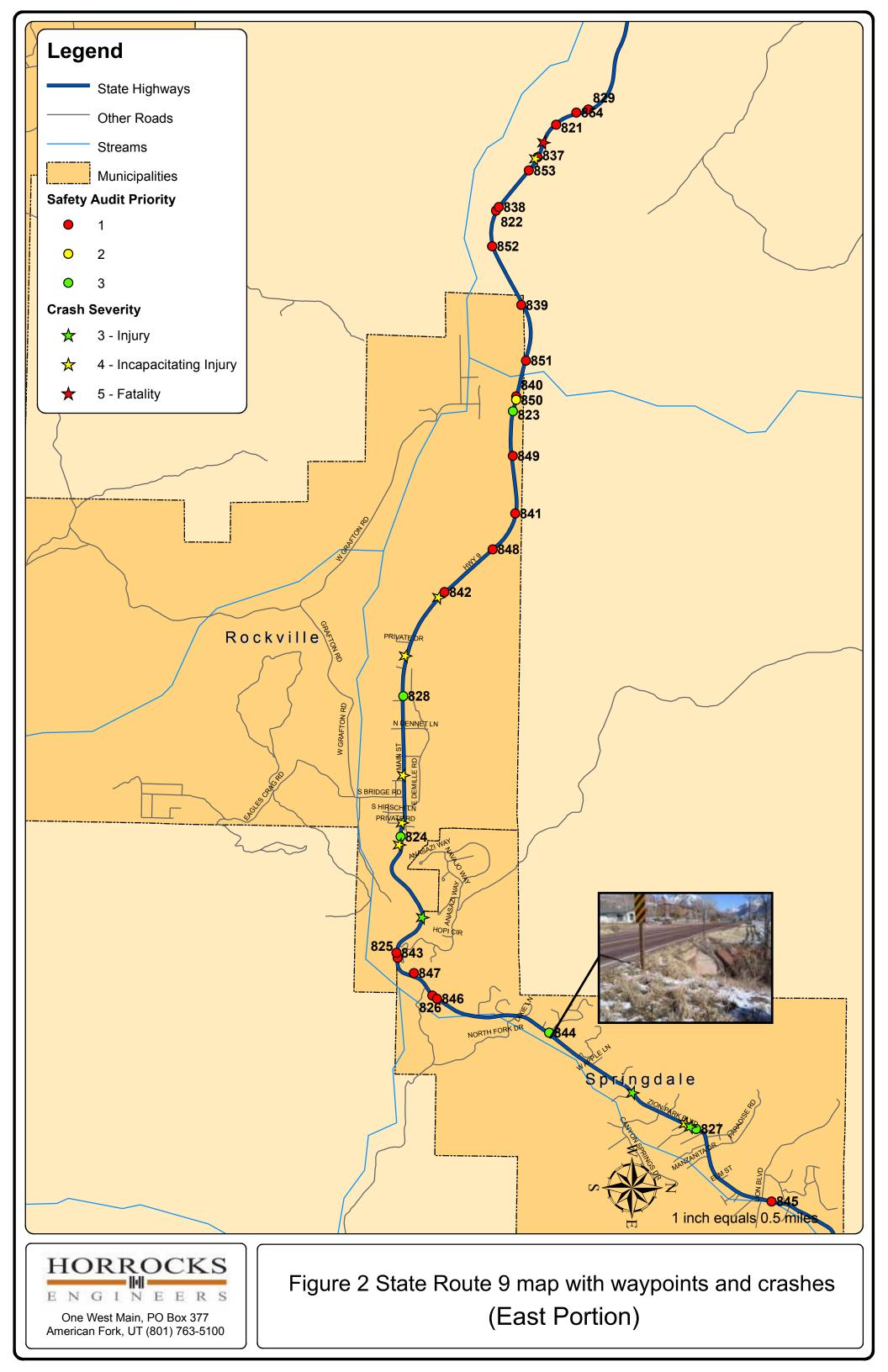
From 2002 to 2005 25 crashes were run off the road crashes and 17 involved vehicles hitting animals.

The distribution of severities over the four year period was:

Severity 1 Non-Injury: 61
Severity 2 Possible Injury: 15
Severity 3 Injury: 14
Severity 4 Incapacitating Injury: 23
Severity 5 Fatal 1

Overall, the crash frequency is less than might be expected but is considerably higher in severity than expected on this type of roadway. However, the improvements recommended in this document are anticipated to improve the accident rate and lessen the severity of the crashes.





General Recommendations

General observations of the facility include:

- Rumble strips are not present along much of the corridor. Old style rumble strips are in other areas. Shoulders throughout the corridor are approximately 2' to 5' wide. New standard rumble strips should be added.
- Passing Sight Distance is a concern in areas where passing is permitted between Virgin and Rockville (MP 18-27); terrain and geometry of roadway seem to prohibit safe passing maneuvers. There are a large number of head-on and passing-related collisions in this area. The ideal solution would be to have a 4-lane roadway between Virgin and Rockville (MP 18-27).
- Raised pavement markers would provide assistance to delineate roadway for last 6 miles where there is winding road geometry.
- There are many crashes between MP 27-33; geometry has sharp horizontal & vertical curves combined with numerous access points; it is likely that vehicles are traveling too fast for conditions and not being aware.

Priority 1 Recommendations

The clear zone discussed in Table 1 fails the meet width requirements and needs to be widened as well as have delineation improved.

Table 1 SR-9 Priority 1 Clear Zone

Mile Post	Way- Point	Description	Typical Photo
12.82	801	Clear zone needs to be widened, flattened; improve delineation – PHOTOS 19-21	

Table 2 provides the four cases where culverts end within the clear zone. These culverts need to be extended in order to provide the needed clear zone width.

Table 2 SR-9 Priority 1 Culvert Extensions

Mile	Way-	Description
Post	Point	Description
13.13	802	2 culvert ends need extensions
20.00	814	Pipe culvert end needs extension for sufficient clear zone
20.45	830	Existing culverts need to be extended
23.25	829	Extend culvert for wider clear zone

Delineation was found to be a problem on five curves as discussed in Table 3. The delineators on the curves need to be set at the appropriate spacing.

Table 3 SR-9 Priority 1 Delineation

Mile Post	Way- Point	Description	Typical Photo
13.68	805	Delineation on curve needs tighter spacing – PHOTO 23	
15.52	807	Delineation needs improvement on curve	Table 10
19.97	813	Delineation needs improvement on curve	
20.65	816	Delineation needs improvement on curve	
22.54	820	Delineation needs improvement on curve	

Guardrails at several locations need to be extended to meet the length of need. Table 4 provides a discussion of the specific locations and recommended improvements.

Table 4 SR-9 Priority 1 Guardrail Extensions

Table +	Table 4 SK-9 Filolity I Guardian Extensions				
Mile Post	Way- Point	Description	Typical Photo		
15.31	806	Extend guardrail 200' south - insufficient length of need			
16.42	808	Extend guardrail 200' south - insufficient length of need – PHOTO 24			
17.49	809	Extend guardrail 200' south - insufficient length of need			
20.29	815	Guardrail could be extended 200' south			
21.05	817	Extend guardrail 200' south - insufficient length of need			
21.78	818	Extend guardrail 200' south - insufficient length of need			
22.27	819	Extend guardrail 200' south - insufficient length of need			
24.15	822	Extend guardrail 200' south - insufficient length of need			

Warning signs were the most frequently needed improvement on this roadway. The signs include chevrons, turning warning signs, and advisory speed warnings. A ball bank turn indicator was used to determine the need for the particular signs and advisory speeds. The location and description of the recommended signing improvements are provided in Table 5.

Table 5 SR-9 Priority 1 Warning Signs

Mile	Way-	Description
Post	Point	·
13.22		Chevrons need to be added for both directions
15.80		Advisory speed is needed for this curve; possibly 60 mph
16.22	858	Add curve right warning sign for SB
20.80	832	Add curve right warning sign for NB
20.81	833	Add advisory speed for 50 mph for SB
21.21	857	Add curve left warning sign for SB
21.26	834	Add curve left warning sign for SB
21.38	835	Add winding road left sign for NB (no advisory speed)
22.11	856	Add curve right warning sign for SB
22.49	836	Add winding road left warning sign for NB
22.53	821	Add chevrons to curve - both directions
22.57	855	Add curve right warning sign for SB
22.91	854	Add curve right warning sign for SB
23.68	837	Add curve right warning sign for NB
23.81	853	Add curve left warning sign for SB
24.09	838	Add curve left warning sign for NB 60 mph advisory speed
24.41	852	Add curve right warning sign for SB
24.77	839	Add curve right warning sign for NB
25.08	851	Add curve left warning sign for SB
25.38	840	Add curve left warning sign for NB
25.70	849	Add curve right warning sign for SB
25.99	841	Add curve left warning sign for NB
26.32	848	Add curve left warning sign for SB w/60 mph adv speed
26.78	842	Add curve left warning sign for NB
29.22	825	Curve needs chevrons
29.22	843	Change sign to turn sign left instead of curve left for NB
29.41	847	Change sign to turn sign right instead of curve right for SB
29.61	826	Add chevrons to curve - both directions
29.65	846	Add reverse curve right for SB
32.19	845	Pedestrian crossing signs do not meet current standards

Priority 2 Recommendations

Two barriers were found to lack crash attenuators, as discussed in Table 6.

Table 6 SR-9 Priority 2 Barrier Attenuators

Mile Post	Way- Point	Description	Typical Photo
18.28	811	Barrier end needs attenuator – PHOTO 26	
25.39	850	Add attenuators to barrier ends	

Priority 3 Recommendations

Table 7 discusses a priority 3 clear zone problem which is anticipated to be expensive to improve.

Table 7 SR-9 Priority 3 Clear Zone SR-9

		only 3 Glear Zone 3K-3	
Mile	Way-	Description	Typical Photo
Post	Point	Description	1 ypicai i noto
13.55	804	Clear zone is impeded by rock ledges – PHOTO 22	

Geometry improvements are discussed in Table 8. These improvements include the straightening of the road and the addition of a two-way-left-turn-lane (TWLTL).

Table 8 SR-9 Priority 3 Geometry

Mile	Way-	Description
Post	Point	Description
27.47	828	Add TWLTL through town of Rockville
28.34	824	Geometry of road should be straightened; delineation needs improvement on these curves

The lack of adequate sight distance was an issue at several locations due to sag curves, crest curves, and other issues. Table 9 provides a discussion of sight distance improvements.

Table 9 SR-9 Priority 3 Sight Distance

	Table 5 CK-5 1 Hority 6 Cight Distance				
Mile post	Way- Point	Description	Typical Photo		
17.87	810	Insufficient sight distance for left turns from driveway accesses; sag curve needs to be raised – PHOTO 25			
18.74	812	Insufficient sight distance for turns from driveway accesses			
25.20	823	Insufficient passing sight distance in both directions			
31.48	827	Crest curve needs to be flattened to provide stopping sight distance			

A box culvert was found to limit the clear zone to only 3 feet. Table 10 provides a description and photo of the issue.

Table 10 SR-9 Priority 3 Box Culvert

Mile Post	Way- Point	Description	Typical Photo
30.39	844	Box culvert needs extension; clear zone is only 3' wide – PHOTOS 28-29	

State Route 17 Recommendations MP 0-6.06

State Route 17 is a two-lane rural highway that runs from Laverkin in the south to Toquerville in the north where it connects with I-15. A safety audit was completed on this facility on February 4, 2008. Figure 3 provides a map of the route with the level 3, 4, and 5 crashes and the waypoints of the recommended improvements.

Crash History

The crash history for SR-17 shows 40 crashes for 2002 to 2005 resulting in an average of 10 crashes per year. The average accident rate is 1.50 accidents per million vehicle miles which is slightly more than the 1.46 expected value. The severity index is an average of 2.10 which is higher than the expected index of 1.70. The average crash rate is pulled up significantly by the 2003 rate which was 2.86. The years of 2002, 2004, and 2005 all have a crash rate of approximately 1.05. A detailed crashed history for this roadway is provided in Appendix B.

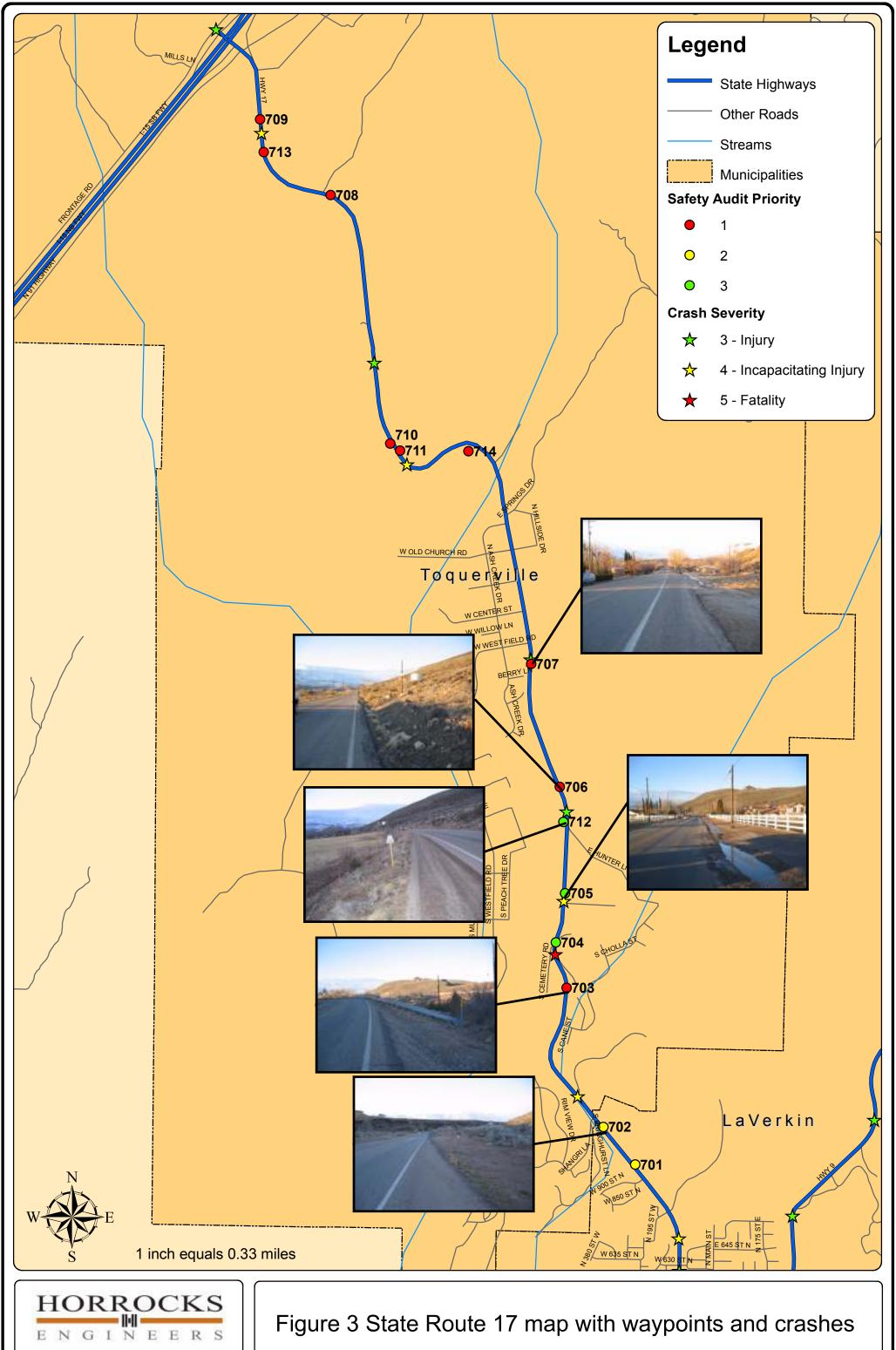
The most frequent accident type over the four year period was single vehicle collisions: a total of 30 (75%) of the crashes only involved a single vehicle. The remaining crashes varied among 6 other accident types.

From 2002 to 2005 17 crashes were run off the road crashes and 6 involved vehicles hitting animals.

The distribution of severities over the four year period was:

Severity 1 Non-Injury: 18
Severity 2 Possible Injury: 10
Severity 3 Injury: 6
Severity 4 Incapacitating Injury: 5
Severity 5 Fatal 1

Overall, the crash frequency and is higher than might be expected but is considerably higher in severity than expected on this type of roadway. However, improvements recommended in this document are anticipated to improve the accident rate and lessen the severity of the crashes.



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General Recommendations

General observations of the facility include:

Narrow shoulders exist throughout the corridor. Rumble Strips should be installed.

Priority 1 Recommendations

Guardrails at two locations need to be extended to meet the length of need. Table 11 provides a discussion of the specific locations and recommended improvements.

Table 11 SR-17 Priority 1 Guardrail Extensions

	Table 11 OK-17 Honey 1 Gaardran Extensions				
Mile Post	Way- Point	Description	Typical Photo		
1.48	703	Replace Texas turndown and extend guardrail; length of need is insufficient – PHOTO 8 (Northbound)			
4.07	711	Replace Texas turndown and extend guardrail south (Southbound)			

Warning signs were the most frequently needed improvement on this roadway. The signs include chevrons, turning warning signs, and advisory speed warnings. A ball bank turn indicator was used to determine the need for particular signs and the advisory speeds. The location and description of the recommended signing improvements are provided in Table 12.

Table 12 SR-17 Priority 1 Warning Signs

Mile	Way-	Description	
Post	Point	Description	
2.29	706	Add curve warning sign (Northbound)	
2.81	707	Add reduced speed ahead warning sign prior to speed limit drop to 40 mph	
3.79	714	Curve needs advisory speed; too fast for ball bank at 40 mph speed limit	
5.08	708	Add chevrons on curve, improve delineation	
5.11	/13	Reverse curves need advisory speed probably 50 mph; too fast for ball bank at 60 mph speed limit	
5.52	709	Add chevrons on curve, improve delineation	
4.17	710	Change advisory speed on curve to 30mph: 25 is excessively slow (Southbound)	

Priority 2 Recommendations

A barrier on a bridge was found in need of stabilization and is discussed in Table 13.

Table 13 SR-17 Priority 2 Barrier Stablization

Mile Post	Way- Point	Description
0.64	701	Barrier on NB approach to bridge is settling back – needs to be stabilized

Widening the shoulder is recommended at this location to provide continuity and to match the existing shoulders as discussed in Table 14.

Table 14 SR-17 Priority 2 Widening

T GIDTO T	+ OIX-17 1	Friority 2 Widening	,
Mile Post	Way- Point	Description	Typical Photo
0.83	702	Extend shoulder widening back to match existing widened shoulder ~ 200' – PHOTOS 6-7 (Northbound)	

Priority 3 Recommendations

Table 15 discusses priority 3 clear zone problems.

Table 15 SR-17 Priority 3 Clear Zone SR-9

Table 15 SR-17 Priority 3 Clear Zone SR-9				
Mile Post	Way- Point	Description	Typical Photo	
1.83	705	Telephone poles within the clear zone – PHOTOS 9-10 (Northbound)		
2.29	706	Clear zone needs flattening – PHOTOS 11-13 (Northbound)	The state of the s	
2.17	712	Side slopes too steep – PHOTO 15 (Southbound)		

Geometry improvements are discussed in Table 16. This improvement includes the addition of a two-way-left-turn-lane (TWLTL) and widening the pavement shoulders. The interchange with I-15 also presents geometric issues; however, this is being addressed by another project.

Table 16 SR-17 Priority 3 Geometry

Mile Post	Way- Point	Description	Typical Photo
2.81	707	Add TWLTL in town, widen pavement shoulders – PHOTO 14 (Northbound)	

The lack of adequate sight distance was an issue at one location. Table 17 provides a discussion of sight distance improvements.

Table 17 SR-17 Priority 3 Sight Distance

Mile Post	Way- Point	Description
1.65	704	Insufficient intersection sight distances for driveways (Northbound)

State Route 59 Recommendations MP 0-22.1

State Route 59 is a rural two-lane facility that runs north/south from Hildale through Apple Valley to Hurricane. A safety audit was completed on this facility on February 4, 2008. Figure 4 provides a map of the west portion of the route with the level 3, 4, and 5 crashes and the waypoints of the recommended improvements. Figure 5 provides the map of the east portion of the route.

Crash History

The crash history for SR-59 shows 133 crashes for 2002 to 2005 resulting in an average of 33.3 crashed per year. The average accident rate is 1.76 which is higher than the 1.70 expected value. The severity index is an average of 1.52 which again is slightly more than the expected index of 1.46. A detailed crashed history for this roadway is provided in Appendix B.

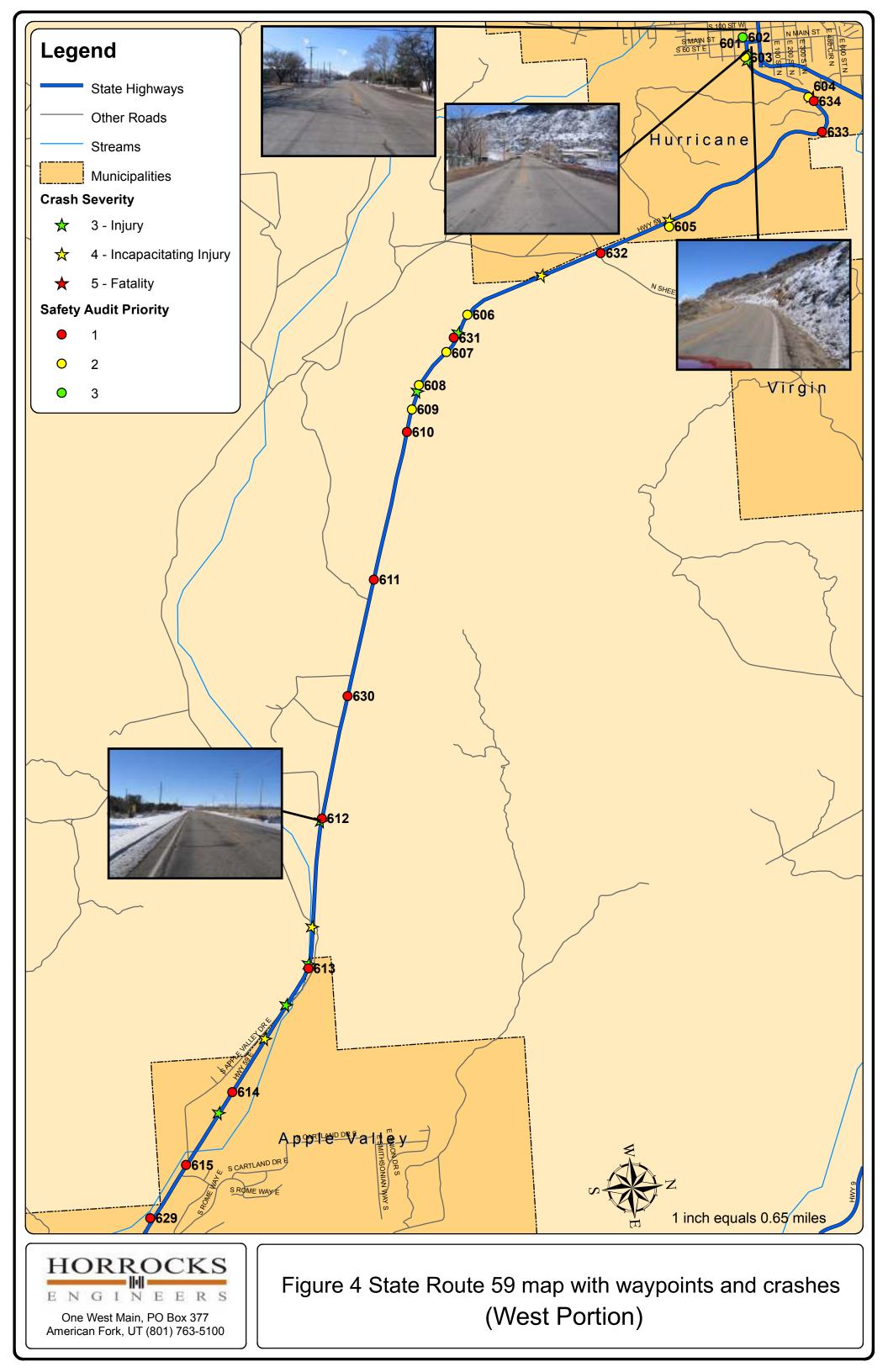
The most frequent accident type over the four year period was single vehicle collisions: a total of 82 (62%) of the crashes only involved a single vehicle. The remaining crashes varied among 16 other accident types.

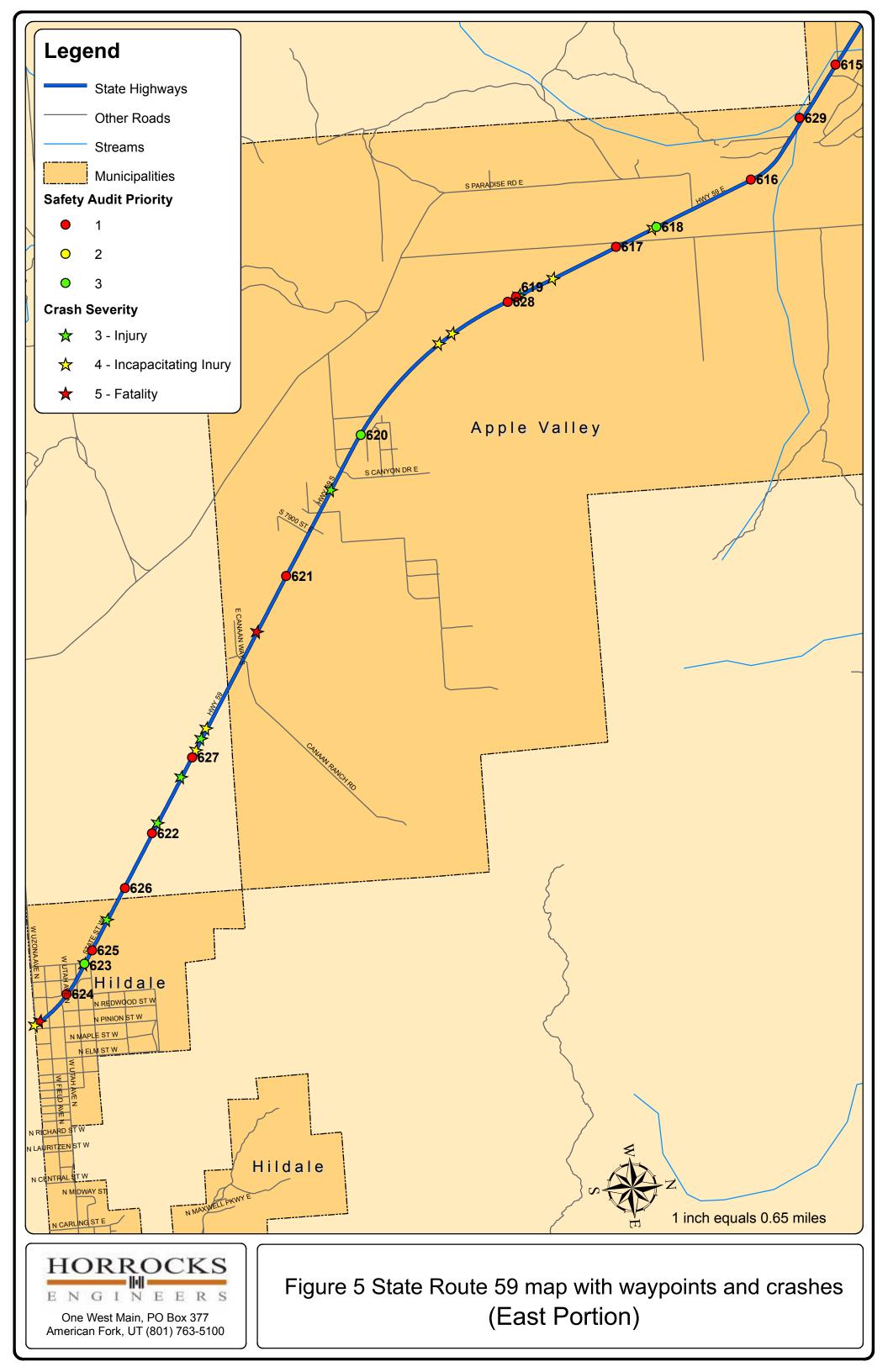
From 2002 to 2005 69 crashes were run off the road crashes and 6 involved vehicles hitting animals.

The distribution of severities over the four year period was:

Severity 1 Non-Injury: 84
Severity 2 Possible Injury: 19
Severity 3 Injury: 14
Severity 4 Incapacitating Injury: 13
Severity 5 Fatal 3

Overall, the crash frequency and severity are higher than might be expected on this type of roadway. However, the improvements recommended in this document are anticipated to improve the accident rate and lessen the severity of the crashes.





General Recommendations

General observations of the facility include:

- No rumble strips are present along the corridor. The roadway contains long, straight sections. Shoulders need to be widened for the entire segment and rumble strips should be added.
- Much of the existing guardrail between MP 22-20 is in good condition; no signs of hits are present; however, support behind posts is lacking.
- Install dynamic speed feedback sign in NB direction on final decent before town.
- Many of the signs along the route are in poor condition with low reflectivity. Many signs have been shot-up or are otherwise damaged.

Priority 1 Recommendations

The clear zone, discussed in Table 18, fails to meet width requirements and needs to be widened or have barrier protection installed.

Table 18 SR-59 Priority 1 Clear Zone

Mile Post	Way- Point	Description
9.88	629	Clear zone needs widening or barrier protection (Northbound)

Table 19 provides the five cases where culverts end within the clear zone. These culverts need to be extended in order to provide the needed clear zone width.

Table 19 SR-59 Priority 1 Culvert Extensions

Mile	Way-	Description	
Post	Point	Description	
1.34	626	Culverts are within clear zone (multiple), need extensions and/or side slopes re-graded (Northbound)	
14.45	630	Culverts are within clear zone (multiple), need extensions and/or side slopes re-graded (Northbound)	
1.85	622	Culver pinches clear zone (Southbound)	
11.10	614	Culver pinches clear zone (Southbound)	
15.44	611	Various holes/culverts within the clear zone (Southbound)	

An edge drop was found to be a problem at one location as discussed in Table 20.

Table 20 SR-59 Priority 1 Edge Drop

Mile Post	Way- Point	Description
16.46	610	4" edge drop (Southbound)

Warning signs and striping changes were the most frequently needed improvement on this roadway. The signs include chevrons, turning warning signs, and advisory speed warnings. A ball bank turn indicator was used to determine the need for the particular signs and the advisory speeds. Striping improvements include prohibiting passing. The location and description of the recommended signing and striping improvements are provided in Table 21.

Table 21 SR-59 Priority 1 Warning Signs and Striping

	011 00 1	riority 1 Warning Signs and Striping
Mile Post	Way- Point	Description
0.75	625	Prohibit passing in NB direction - insufficient sight distance for 1/2 mile to the North (Northbound)
2.34	627	No-passing zone should be extended further south for NB vehicles direction, insufficient sight distance; area with cluster of head-on collisions (Northbound)
7.03	628	Prohibit passing in NB direction - insufficient sight distance for 1/4 mile to the North (Northbound)
17.41	631	Add chevrons on outside of curve; clusters of ROR crashes in NB direction add winding road sign in NB direction prior to curves; CURVES NEED ADVISORY SPEED (65 MPH speed limit too fast for ball bank) (Northbound)
18.8	632	Evaluate allowing passing in NB direction; sufficient sight distance adjacent to climbing lane in SB direction (Northbound)
20.85	633	Runaway truck ramp has only 1 warning sign at 1 mile in advance; needs additional warning signing at 1/2 mile and 500 feet (Northbound)
21.22	634	Curves in NB direction needs advisory speed (40 mph speed limit too fast for ball bank) (Northbound)
0.48	624	Consider reducing speed limit through town; existing is 50 mph and there are a lot of conflicts, driveways, etc.; 50 mph SB should be moved back out to before town (Southbound)
4.01	621	Prohibit passing in SB direction - insufficient sight distance for 1/4 mile to the South (Southbound)
7.19	619	Prohibit passing in SB direction - insufficient sight distance for 1/2 mile to the South (Southbound)
8.11	617	Install intersection warning signs here; prohibit passing in SB direction - insufficient sight distance (Southbound)
9.3	616	Cluster of crashes on curve; install chevrons on curve; verify passing sight distance in EB direction (Southbound)
10.42	615	Side road intersection needs advance warning (Southbound)
12.18	613	Cluster of crashes on curve; install chevrons on curve (Southbound)
13.42	612	Insufficient passing sight distance for NB direction; no-pass zone needs to be extended 1/2 mile – PHOTO 4 (Southbound)

Priority 2 Recommendations

Widening of the facility is recommended a several locations to address the addition of passing lanes and narrow shoulders. These issues are discussed in Table 22.

Table 22 SR-59 Priority 2 Widening

Mile Post	Way- Point	Description
16.83	609	Passing lane dropped in SB direction; 1' shoulder width; 12' lanes; clear zone could be widened (Southbound)
17.05	608	12'-15' of clear zone in SB direction; needs to be widened (Southbound)
17.34	607	Passing lane added for SB direction (Southbound)
17.83	606	Passing lane in SB direction dropped, but should be extended an additional ½ mile (Southbound)
19.52	605	Passing lane added for SB direction; 12' lanes; 2' shoulders; side slopes are flatter and recoverable beginning here (Southbound)
20.25	604	Narrow pinch points with no existing clear zone (2:1 side slopes, 1' shoulder); very large hazards need protection (Southbound)
21.95	603	Narrow shoulders, (1' wide) 2-12' lanes; clear zone is 2'-3' wide at bottom of hill; guardrail existing higher up on hill. Guardrail in decent condition; but has areas with no support behind posts – PHOTO 1 (Southbound)

Priority 3 Recommendations

Geometry improvements are discussed in Table 23. These improvements include adding turn lanes and the addition of a two-way-left-turn-lane (TWLTL).

Table 23 SR-59 Priority 3 Geometry

Mile	Way-	Description
Post	Point	Description
0.64	623	Begin TWLTL here to MP 0.27 (Southbound)
5.41	620	Extend turning/passing lanes to south MP 4.5; numerous driveway/side road accesses through this area; many conflict points (Southbound)
8.72	618	Cluster of crashes at this intersection; add left & right turning lanes for this intersection (Southbound)
22.02	601	Consider adding turning lanes at intersection of 100 East/100 South (SR-59); turning traffic on SR-59 stops in through lanes with limited sight distance. Cluster of intersection-related crashes here – PHOTO 3 (Southbound)
22.05	602	Add turning lanes at intersection on Main Street/100 South (SR-59); heavy traffic use – PHOTO 2 (Southbound)

Summary and Conclusions

Many of the crashes within this corridor appear to be related to driver behavior. However, a number of improvements could be made to reduce the severity of the crashes on all three facilities discussed in this report.

The three roadways all have recommended improvements. Some common problems among the roadways are narrow shoulders, culvert ends in the clear zone, inadequate warning and advisory speed signs, curve delineation, short guardrails, lack of sight distance, and some geometric issues. Rumble strips are recommended for all three roadways in addition to improvements addressing these issues listed above.

Appendix A Photographs













Photo #7



Photo #8



Photo #9



Photo #10



Photo #11



Photo #12



Photo #13



Photo #14



Photo #15



Photo #16



Photo #17



Photo #18



Photo #19



Photo #20



Photo #21



Photo #22



Photo #23



Photo #24



Photo #25



Photo #26



Photo #27



Photo #28



Photo #29



Photo #30



Appendix B Crash History

State Route 9

UTAH DEPARTMENT OF TRANSPORTATION

Operational Safety Report

State Route

9

Length

22.7

Milepoint

11

to

33.7

	Number of	•	Fatal	Fatal		Fatalitys		
Year	Accidents	Rate	Accidents	Rate	Fatalitys	Rate	ADT	Severity
2005	21	0.60	0	0.00	0	0.00	4190	1.86
2004	20	0.58	1	2.88	1	2.88	4190	2.00
2003	37	1.07	0	0.00	0	0.00	4190	2.27
2002	36	1.04	0	0.00	0	0.00	4190	1.86

Accidents Totals and Averages

Total Acc Average ADT

114 4190 Average Acc Average Severity Average Acc. Rate Expected
28.50
2.00
1.70
0.75
1.46

SR-9 Accident History

2002 to 2004 Milepoint 11.00 to 33.7

New	<u> </u>						(Collisio	on Ty	oe .							
Milepost	1	2	3	4	5	6	7	8	9	11	12	14	17	21	22	26	Grand Total
11.06			1									-					1
11.11										1	1-	1	1	1		†	1
11.16			2								1	 		 			2
11.18				1								1					1
11.23			1							1		1	1		1		1
11.24			1										1	1	1		1
11.28													1	 	†		1
11.37			2										1				2
11.52															1		1
11.59																1	1
11.63							1						1				1
11.64			1											1	1		1
11.67			1											1			1
11.68													1				1
11.69								1									1
11.81													1				1 .
11.92			<u> </u>										1				1
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12.19			1														1
12.22													1				1
12.26												1					1
12.41		1															1
12.44			1														1
12.45		1									1						2
12.59													1				1
13.02													1				1
13.26													1				1
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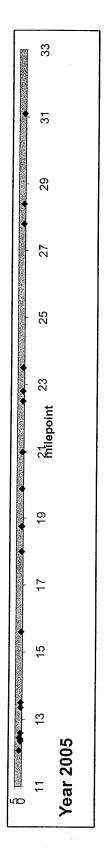
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um Of Count	Acc Severity Cd						
oll Type Cd	Coll Desc	1	2	3	4	5	Grand Total
01	HEAD ON			1		1	2
01 Tota		0	0	1	0	1	2
02	HEAD ON (LFT)	1	2		1		4
02 Tota		1	2	0	1	0	4
03	REAR END	9	2	1	1		13
03 Tota		9	2	1	1	0	13
04	SAME DIRECTION TURN RIGHT REAR END				1		1
04 Tota		0	0	0	1	0	1
05	SAME DIRECTION TURN LEFT REAREND	1	2		1		4
05 Total	·	1	2	0	1	0	4
06	SIDE SWIPE (OPP)	1	-		1		2
06 Total		1	0	0	1	0	2
07	SIDE SWIPE (SAME)	3					3
07 Total		3	0	0	0	0	3
08	SAME DIR (RT)	1					1
08 Total		1	0	0	0	0	1
09	SAME DIR (1 LFT)		1				1
09 Total		0	1	0	0	0	1
11	ANGLE (2 STR)	1		2		~	3
11 Total		1	0	2	0	0	3
12	FROM RT (RT)	1.					1
12 Total		1	0	0	0	0	1
14	FROM RT (LFT)	1	1	1			3
14 Total		1	1	1	0	0	3
17	BINGLE VEHICLE	28	3	7	12		50
17 Total		28	3	7	12	0	50
21	NGLE (2 LFT)		1				1
21 Total		0	1	0	0	0	1
22	JTURN (1 STR)		1		2		3
22 Total		0	1	0	2	0	3
26 F	ARKED	1				-	1
26 Total		1	0	0	0	0	1
Grand Total		48	13	12	19	1	93

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UTAH DEPARTMENT OF TRANSPORTATION

Accident Types

Route No. 0009

Begin Milepoint 11

End Milepoint 33.7

End Year 2004

	Accident Type	Count	Percent
1	MV-PEDESTRIAN	1	1.08
.2	MV-MV	42	45.16
4	MV-BICYCLE	1	1.08
5	MV-ANIMAL(WILD)	11	11.83
7	MV-OTHER OBJECT	3	3.23
8	OVERTURNED IN ROADWAY	3	3.23
Α	OTHER NON-COLLISION	8	8.60
D	MV - ANIMAL (DOMESTIC)	2	2.15
L	RAN OFF ROAD LEFT	5	5.38
R	RAN OFF ROAD RIGHT	17	18.28
	Total	93	100.00

UTAH DEPARTMENT OF TRANSPORTATION Surface Condition

Route No. 0009

Begin Milepoint 11

End Milepoint 33.7

End Year

2004

Surface Condition	Count	Percent
1 DRY	83	89.25
2 WET	10	10.75
Total	93	100.00

UTAH DEPARTMENT OF TRANSPORTATION Light Condition

Route No. 0009

Begin Milepoint 11

End Milepoint 33.7

End Year 2004

Light Condition	Count	Percent
1 DAYLIGHT	64	68.82
2 DAWN	1	1.08
3 DARKNESS STREET OR HIGHWAY NOT	21	22.58
4 DARKNESS STREET OR HIGHWAY LIG	5	5.38
5 DUSK	2	2.15
Total	93	100.00

SR-9 2002 - 2004 MP11 to 33.7

		year	_	
Milepoint	2002	2003	2004	Grand Total
11.02	1	,		
11.07	1			
11.12	2			
11.14			1	
11.19	1			
11.2		1		
11.24			1	
11.33	1	1		
11.48			1	
11.55		1		
11.59			1	
11.6			1	
11.63	1			-
11.64	1			
11.65			1	•
11.77	1			•
11.88	1			-
11.9			1	1
12.03		2		
12.09	1		1	
12.15	1			
12.18	-	1		
12.22		1		
12.37		1		1
12.4		1		
12.41		1	1	
12.55			1	
12.97	-		1	
13.21		1		
13.27	1			
13.77	1			
15.22		1		
15.4		1		
15.43		1		1
15.73		4		1
	4	1		<u> </u>
15.86	1			1
16.76	1			1
17.26		1		1

SR-9 2009 to 2004 MP 11 to 33.7

Milepoint	2002	2003	2004	Grand ⁻	Total
17.46	ì		1		
17.82				1	
18.08	3		1		
18.32	1				
18.33			1		
18.4	1		-		
18.48	1				
18.82	1				
19.15	1				
19.42			1		•
19.52	1				
20.45			1		
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20.69	1				•
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21.38				1	•
21.78	1	***			-
22.32	1				1
22.48			3		3
23.58				1	1
23.7	1				1
23.88	1				1
24.26			1		1
25.33	1	•			1
27.22	1		-		1
27.82	1				1
27.94			1		1
28.04	1				1
28.12	1				1
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28.25				1	1
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SR-9 2002 - 20024 Mp 11 to 33.7

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SR-9 2002 - 2004 Mp 11 to 33,7

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SR-9 2002-2004 Mp 11 to 33,7

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SR-9 2002-2004 Mp 11 to 33.7

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UTAH DEPARTMENT OF TRANSPORTATION

Accident Types

Begin Milepoint 11

Route No. 0009

End Milepoint 33.7

End Year 2005

	Accident Type	Count	Percent
2	MV-MV	11	52.38
5	MV-ANIMAL(WILD)	4	19.05
6	MV-FIXED OBJECT	1	4.76
8	OVERTURNED IN ROADWAY	1	4.76
Α	OTHER NON-COLLISION	1	4.76
L	RAN OFF ROAD LEFT	1	4.76
R	RAN OFF ROAD RIGHT	2	9.52
	Total	21	100.00

UTAH DEPARTMENT OF TRANSPORTATION **Surface Condition**

Route No. 0009

Begin Milepoint 11

End Milepoint 33.7

End Year 2005

Surface Condition	Count	Percent
	1	4.76
1 DRY	17	80.95
2 WET	1	4.76
4 SNOWY	2	9.52
Total	21	100.00

UTAH DEPARTMENT OF TRANSPORTATION Light Condition

Route No. 0009

Begin Milepoint 11 End Milepoint 33.7

End Year 2005

Light Condition	Count	Percent
1 DAYLIGHT	17	80.95
3 DARKNESS STREET OR HIGHWAY NOT	1	4.76
4 DARKNESS STREET OR HIGHWAY LIG	3	14.29
Total	21	100.00

Sum Of Count	Acc Severity Cd				T	IP II To
oll Type Cd	Coll Desc	1	2	3	4	Grand Total
01	HEAD ON			1		1
01 Tota		0	0	1	0	1
02	HEAD ON (LFT)	2			1	3
02 Tota		2	0	0	1	3
03	REAR END	1	-	 	-	1
03 Tota		. 1	0	0	0	1
. 05	SAME DIRECTION TURN LEFT REAREND		1			1
05 Total		0	1	0	0	1
11	ANGLE (2 STR)				1	1
11 Total		0	0	0	1	1
14	FROM RT (LFT)	3				3
14 Total		3	0	0	0	3
17	SINGLE VEHICLE	6	1	1	2	10
17 Total		6	1	1	2	10
26	PARKED	1				1
26 Total		1	0	0	0	1
Grand Total		13	2	2	4	21
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SR-9 2005

MP 11.00 To 33,7

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12.35								1	1	
12.41		1							1	
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13.35							1		1	
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18						1			1	,
18.75				1					1	
19.88							1		1	
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SR-009 20056c MP 11:00 to 33.7

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12.12	2		1
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12.41	1		1
12.45	5 2		2
12.59	1		1
13.35	1		1
13.5	1		1
15.6	1		1
18	1		1
18.75	1		1
19.88	1		1
19.9		1	1
20.98	1		1
22.5	1		1
22.8	1		1
23.5	1		1
27.8	1		1
28.4	1		1
31.1	1		1
31.55		1	1
33.35	1		1
Grand Total	21	3	24

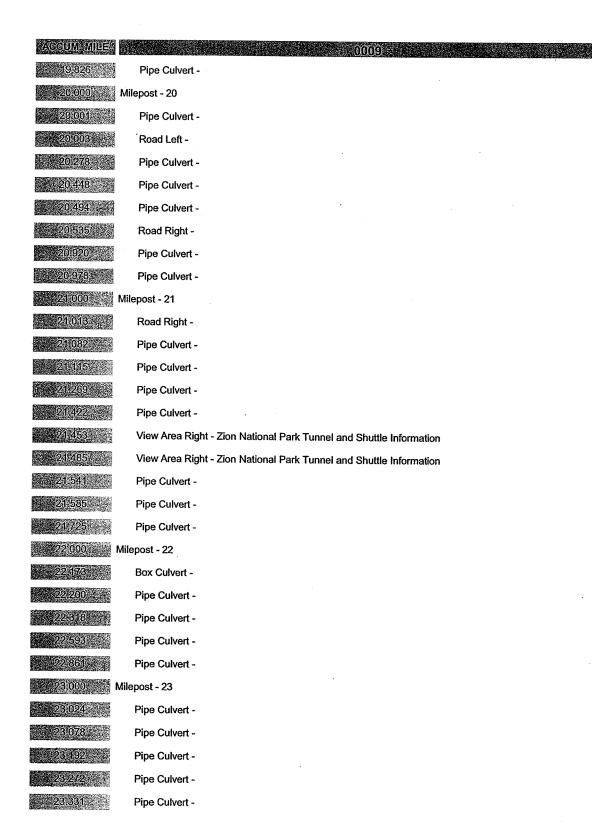
Jan 06

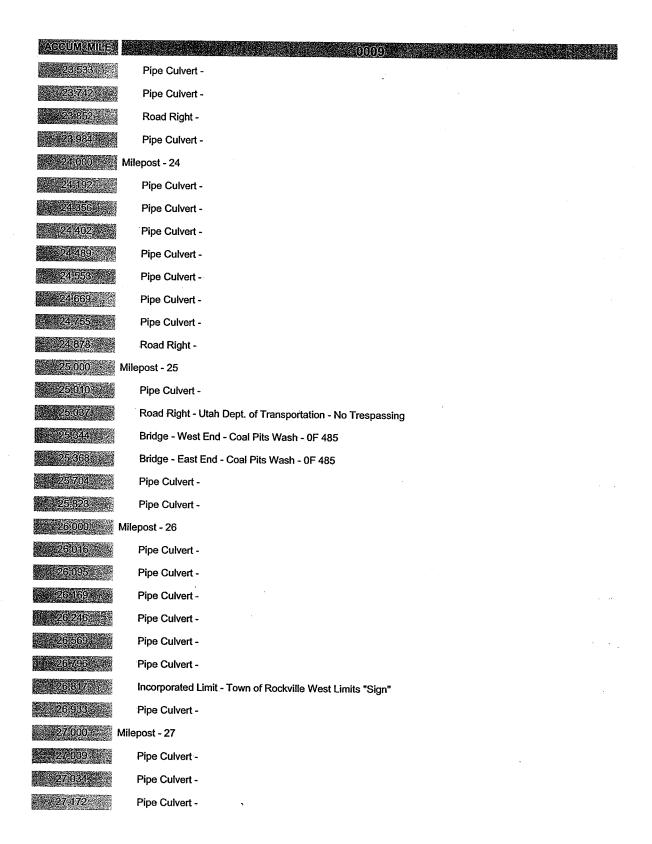
2005-62006

				•	
ACCUM MILE		00009			
10,495	Pipe Culvert -			•	
10.497	Street Left - 495 North			·	
10,624	Street Left - 600 North		(TaxT	End	Length
40.824	Street Left - 800 North		1901	22 561 -	21.561
** 10.883	Street Right - Enchanted Way	01d	11.00	24.	f 22
10.948	Bridge - West End - Virgin River - 0C 915	New	11.04	End 32.561 - 22.662 .10	21.622
11-000	Milepost - 11		04	10	,06
211040	ルップス Bridge - East End - Virgin River - 0C 915 ー	Diff		, 10	
F111153	Street Crossing -				
11.378	Street Right - 300 South				
11.514	Street Left - 170 South				
11665	Street Crossing - 100 South			1	
11,805	Street Crossing - Center Street				
12000	Milepost - 12				
12.070	Street Crossing - 200 North				
121201	Street Crossing - 300 North				
12.256	Street Left - 330 North				
sc 12:307.	Street Left - 380 North				
<u>1/2:45</u> 8	Street Left - 500 North		_		
12/458	State Route Straight - Junction SR-17				
7512/458	Route Turns Right - Onto 500 North				
12:592	Street Crossing - Main Street				
12 6411	Street Right - 100 East				
12:888	Pipe Culvert -				
49.000 K	filepost - 13				
13,007	Pipe Culvert -				
13:100	Pipe Culvert -				
1 13 138	Pipe Culvert -				
= 013 203 = F	Pipe Culvert -				· .
13 438	Pipe Culvert -				
13.678	Pipe Culvert -				•
13.769	Pipe Culvert -				
10.821	Pipe Culvert -				

VOGTWINITE		0009			
£14.000	Milepost - 14				
14:042	Pipe Culvert -				
e 6-14-238	Pipe Culvert -				
44.44866	Pipe Culvert -				
2 612,493	Pipe Culvert -				*
14.526	Pipe Culvert -			•.	
4/4/14/580	Pipe Culvert -				
4.872 sala	Pipe Culvert -				٠
14 959	Road Right - To LaVerkin Overlook				
15 000	Milepost - 15				
2.5615(180)	Pipe Culvert -				
15 306-4	Creek Crossing -			•	
15:388	Pipe Culvert -				
15:447	Pipe Culvert -				
. \$2,151,541	Pipe Cuivert -				
2015 588	Pipe Culvert -				
3 15 656 (1)	Pipe Culvert -				
15 689	Road Right -				
45.720	Pipe Culvert -				
15.855	Pipe Culvert -				•
6 46.000	Milepost - 16				
* 416:063 ±	Pipe Culvert -				
16418	Road Right -				
16.206	Pipe Culvert -				
16 270	Pipe Culvert -	,			
16 356	Road Right -				
16/399	Box Culvert -				
46.530	Pipe Culvert -				•
16.727	Pipe Culvert -				
16:829	Pipe Culvert -	•	•		
## #46:871	Box Culvert -				
16.926	Pipe Culvert -				
4.16.965	Pipe Culvert -				

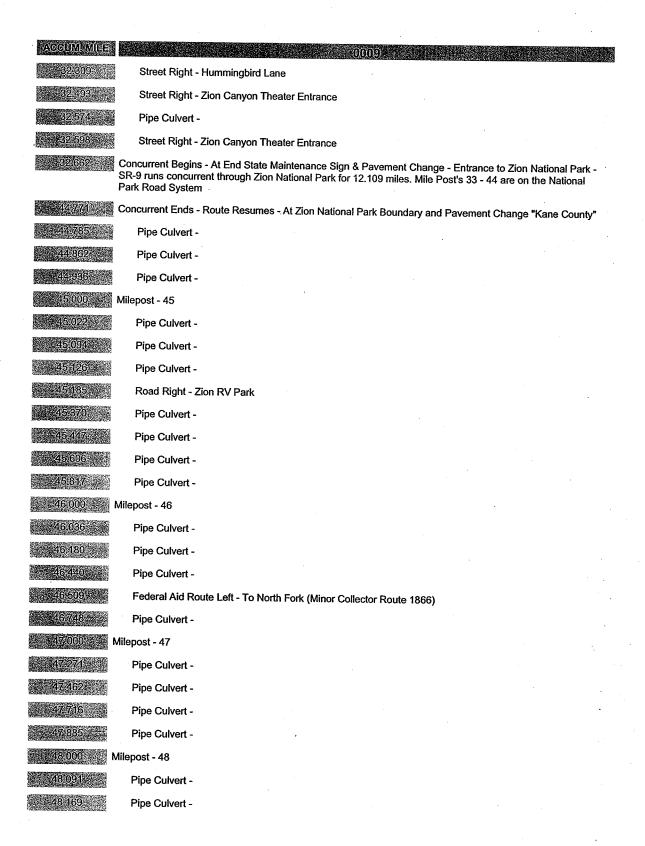
VOCANVINITE	90009
47,000	Milepost - 17
17.062	Pipe Culvert -
17/146	Pipe Culvert -
17.205	Box Culvert -
17.222	Road Right - Emest Way (1420 West)
17/363	Pipe Culvert -
BN17.374	Road Crossing - Mesa Road (1250 West)
417501	Box Culvert -
17 571	Pipe Culvert -
### 17/607	Pipe Culvert -
(7.647	Road Left - Virgin Trading Post and Wild Ass Saloon
17.738	Pipe Culvert -
17.826	Incorporated Limit - Virgin Town West Limits "Sign"
47/894	Street Left - West Temple (775 West)
47.900	Street Right - 700 West
17,932	Pipe Culvert -
18.000 F. N	filepost - 18
18 088	Pipe Culvert -
18 207	Pipe Culvert -
18/304	Pipe Culvert -
18.433	Street Left - 150 West to Cemetery
18.477	Street Right - West Street (100 West)
18.580	Street Right - Mill Street
18 594	Street Left - Foothill Drive (10 East)
18 654	Creek Crossing - Virgin Creek
181730	Street Right - North Street (170 East)
18.730	Federal Aid Route Left - Kolob Road (160 East - Minor Collector Route 3202) To Kolob Reservoir
18.800	Incorporated Limit - Virgin Town East Limits "Sign"
19,000 M	ilepost - 19
347.19.2076	Road Right - Zion River Resort RV Park and Campground
19291	Pipe Culvert -
49-19-330	Bridge - West End - Virgin River - 0F 468
19.347	Bridge - East End - Virgin River - 0F 468





AGGUM MILE	
27-264	Pipe Culvert -
27.408	Pipe Culvert -
27/503	Street Right - Silvertip Lane
27.676	Street Crossing - Bennet Lane (140 West)
27,680 E. A	Pipe Culvert -
27/847	Street Left - Center Street - Terry Lane
27/999	Street Right - Jennings Lane (130 East)
1 28 000 c	Milepost - 28
28 102	Street Right - Bridge Road (200 East)
£ \$28434	Street Right - Hirschi Lane (230 East)
28 JA5	Creek Crossing -
28452	Street Left - Cox Lane (240 East)
West-28:237	Street Right - Ballard Circle (400 East) to Rockville Cemetery
28:466	Incorporated Limit - Town of Rockville East Limits "Sign" and Town of Springdale West Limits
28.732	Pipe Culvert -
28.873	Box Culvert - Mesquite Wash - 0D 443
28.019	Pipe Culvert -
29 000	Milepost - 29
29.016	Pipe Culvert -
29 166	Street Left - Anasazi Way
29.363	Pipe Culvert -
29.672	Pipe Culvert -
29,910	Street Left - Valley View Drive via Zion Park Blvd.
29.975	Pipe Culvert -
000.0E	filepost - 30
30.077	Street Left - Kinesava Drive
30.117	Pipe Culvert -
30 135	Street Right - North Fork Drive
30.192	Street Left - Dixie Lane
30.235	Pipe Culvert -
30 347	Pipe Culvert -
30 324	Street Left - Wanda Lane
30.378	Street Left - Serendipity Lane

V.C.G.T.WF.WILLER	0009
30.383	Box Culvert -
30:407	Street Left - Eagle Lane
30413	Street Left - Steamboat Lane
30563	Pipe Culvert -
30.623	Street Crossing - Quail Ridge Road Left & Springdale City Park Right
30 668	Street Left - Apple Lane
30.672	Pipe Culvert -
30.809	Box Culvert -
30.979	Pipe Culvert -
30.988± v.	Street Left - Hilly Holler Drive
31.000 Mi	lepost - 31
31.225	Street Right - Canyon Springs Road
31 234	Street Left - Sage Drive
31274	Street Left - Gifford Park Drive
3 23 1/283	Box Culvert -
31,393	Street Right - Sundance Road
43/1445	Street Right - Big Springs Road
31516	Street Right - Juniper Lane
31,552	Street Left - Winderland Lane
34.620	Bridge - West End - Springdale Wash - 0F 82
31,631	Bridge - East End - Springdale Wash - 0F 82
31634	Street Left - Paradise Road
31 669	Street Right - Manzanita Drive
81/967 ₁	Street Crossing - Canyon View Drive
317987	Street Right - Kokopeli Circle
32.000 Mil	epost - 32
32.068	Pipe Culvert -
332.077	Street Right - Zion Shadows Circle
32 129	Street Left - Lion Boulevard to O.C. Tanner Amphitheater
32(139)	Creek Crossing -
32 175	Street Right - Park Lane
82.257	Pipe Culvert -
32:266	Street Left - Balanced Rock Road



for 2002-3064

COLINTY				PAGE 3 OF 9
Washington			STATE ROUTE SR-9B	ROUTE LNGTH
IOSE III COM	140000	Particol		44.876
OFFSET	DIFF	PW.E	AGWA3B	STANDARD
0.963	0.102	10.226	300 North Left at Angle	ADDRESS
1.015	0.052	10.278	Heletence Post 10	96.0+6
0.142	0.142	10.420	450 North Right	10+0.00
0.190	0.048	10.468	495 North Left	10+0.14
0.315	0.125	10.593	600 North Left	10+0.19
0.515	0.200	10.793	800 North Left at Angle	10+0.32
0.572	0.057	10.850	Enchanted Way Right	10+0.52
0.622	0.050	10.900	Entrance Right to Historical Marker	10+0.57
0.648	0.026	10.926	South End of SR-9 Structure over Virgin River	10+0.62
0.648	0.000	10.926	4 (ALP) 128	10+0.65
0.722	0.074	11.000	North End of SR-9 Structure over Virgin River	10+0.65
0.722	0.000	11.000		10+0.72
0.840	0.118	11.118		10+0.72
0.874	0.034	11.152	Entrance Right to Trailer Park	10+0.84
0.950	0.076	11.228	Entrance Right to Trailer Park	10+0.87
0.975	0.025	11,253	Reterence Post 11	10+0.95
0.092	0.092	11,345	300 South Right - Left at Angel to Substation	11+0.00
0.227	0.135	11.480	170 South Left	11+0.09
0.376	0.149	11.629	100 South Crossing	11+0.23
0.517	0.141		Center Street Crossing	11+0.38
0.780	0.263	12.033	200 North Crossing	14.0.32
0.911	0.131	12,164	300 North Right	140.70
0.919	0.008	12.172	300 North Left	11.0 02
0.967	0.048	12.220	330 North Left	11+0.07
1.018	0.051	12.271	380 North Left	11.100
1,033	0.015		Returnice Post 12	12+0.00
0.132	0.132		Jct, SR-17 - SR-9 Tums Right & 500 North Left	12+0.13
0.205	0.073	7	Entrance Left to Silver Springs Trailer Park	12+0.21
0.254	0.049	T	Main Street Crossing	12+0.25
0.304	0.050	T	100 East Right at Angle	12+0,30
0.991	0.687	13.277	Reterence-Post 13	13+0.00

COUNTY:		STATE ROUTE SR-9R	PAGE 4 OF 9
			ROUTE LNGTH
LESEL	ACCUM		44.876
440	\$#I.E	REMARK REMARK	SIANUAHU
0.993	14.270	Relaration Post 12	44.000
0.623	14.893	Road Right to LaVerkin Overlook	14+0.00
0.343	15.236		14+0.62
0.388	15.624	Unimproved Road Right	15+0.00
0.428	16.052	Road Right	15+0.39
0.243	16.295	Unimproved Road Right at Angle	15+0.82
0.016	16.311		15+1.06
0.019	16,330	Box Culvert Wash	16+0.00
0.472	16.802	Box Culvert Wash	16+0.02
0.333	17.135	Box Culvert Wash	16+0.49
0.133	17.268	Retarence Post 17	16+0.82
0.036	17,304	Road Crossing	17+0.00
0.413	17.717	Unimproved Road Right at Angle	17+0.04
0.046	17.763		17+0.45
0.065	17.828	700 West Right	17+0.50
0.404	18,232	Box Culvert Wash	17+0.56
0.049	18.281	Haterance Post 18	17+0.96
0.078	18.359	West Street Left (125 West)	18+0.00
0.043	18.402	West Street Right (100 West)	18+0.08
0.104	18.506	Mill Street Right (200 North)	18+0.12
0.017	18.523	Foothill Street Left (10 East)	18+0.23
0.058	18,581	Box Culvert Wash "Virgin Creek"	10+0,64
0.074	18.655	East Street Crossing (100 East - Minor Collector Route 3202 Left)	10+0.30
0.506	19.161	Virgin Town/East Limits	10.01
0.097	19.258	West End of SR-9 Structure over Virgin River	00.00
0.000	19.258	0F-468	10 10 10
0.016	19.274	East End of SR-9 Structure over Virgin River	10+0.98
0.050	19,324		18+0.99
0.602	19.926	Unimproved Road Left	19+0.00
0,005	19,931	Box Culvert Wash	19+0.60
0.363	20.294	Partarentus Proci 37	19+0.61
			20+0.00
			-

COUNTY:			STATE DOLITE OF OR	PAGE 5 OF 9
Washington			STATE ROUTE SHAB	ROUTE LNGTH
	CFFSET	ACCUM		44.876
OFFSET	DIFF	∃1₽¢	7/244/20	STANDARD
0.156	0.156	20.450	Road Right	ADDRESS
0.478	0.322	20.772	Road Right	20+0,16
0.645	0.167	20,939	Road Right at Angle	20+0,48
0.995	0.350	21.289	Hateratoe Post 21	20+0.65
0.080	080'0	21.369	Entrance Right to Overlook View Area	21+0.00
0.114	0.034	21.403		21+0.08
0.648	0.534	21.937	Entrance Left to Historical Marker	21+0.11
0.800	0.152	22.089	Box Culvert Wash	21+0.65
0.999	0.199	22.288	Personne Post 22	21+0.80
0.994	0.994	23.282	Betkeende Fost 23	22+0.00
0.479	0,479	23.761	Unimproved Road Right to Camparound Area	23+0.00
0.999	0.520	24.281		23+0.48
0.479	0.479	24.760	Private Road Left	24+0.00
0.662	0.183	24.943	Road Right	24+0.48
0.677	0.015	24.958	Private Road Left	24+0.66
0.870	0.193	25.151	Rockville City/West Limits	24+0.68
0.967	0.097	25,248	West End of SR-9 Structure over Coal Pits Mash	24+0.87
0.967	0.000	Ι.	0F-485	24+0.97
0.992	0.025		East End of SR-9 Structure over Coal Pits Wash	24+0.97
1.030	0.038	25.311		24+0.99
1.056	0.026	25.337	Reference Post 3%	24+1.03
0.031	0.031	25.368	Unimproved Road Left	25+0.00
0.405	0.374	25.742	Private Road Right	25+0.03
0.573	0.168	25,910	Private Road Right	25+0.41
0.998	0.425	26.335	Reterence Posi 26	25+0.57
0.145	0.145	Γ	SR-9 Structure over Huber Wash	26+0.00
0.145	0.000	Г	00-266	26+0.15
0.269	0.124	Г	Private Road Right	26+0.15
0.281	0.012	T	Private Road Left	26+0.27
0.336	0.055		Private Road Binht at Andla	26+0.28
0.367	0.031	T	and Citivent Wash	26+0.34
				26+0.37
-		T		

State Route 17

UTAH DEPARTMENT OF TRANSPORTATION

Operational Safety Report

State Route 17 Length 6.1 Milepoint 0 to 6.1

		Number of		Fatal	Fatal		Fatalitys		
_	Year	Accidents	Rate	Accidents	Rate	Fatalitys	Rate	ADT	Severity
L	2005	7	1.05	0	0.00	0	0.00	2989	2.29
L	2004	7	1.05	0	0.00	0	0.00	2989	1.71
	2003	19	2.86	1	15.03	1	15.03	2989	1.84
L	2002	7	1.06	0	0.00	0	0.00	2971	2.57

Accidents Totals and Averages

				Expected
Total Acc	40	Average Acc	10	
Average ADT	2989	Average Severity	2.10	1.70
		Average Acc. Rate	1.50	1.46

SR-17 Accident History Year 2005 Milepoint 0.00 to 6.06

			,						
Ψ	Total	₽	1	1	H	1	1	₩	7
Collision Type	17	1	1		₩	1	1	↔	9
J	2			1					₽
	milepoint	0.01	0.28	0.99	1.4	1.58	4	4.57	Total

	4		
	milepoin	-	•
	2		
9	0	Year 2005	
<u> </u>			

SR-17 Accident History 2002 to 2004 Milepoint 0.00 to 6.04

_		_		_,_					,-																						
	Total	1 Orai	٠,	-1 .	7	٠,	-1 -	٠,	4	-1	-	4 -	-	1	+ -	1	+	,	-	-	-	-	, "	,	-	-	-				33
	26	3																									1				1
	22	-												-																	
Collision Type	17			-	1 -	-	-	-	-	1	1	1	1		-	-			1	1	1	-	2	2				1	1	1	24
Collisio	6	-																1													2
	7		-																				1								2
	5			-																											Н
	1																								1	1					2
milepoint	New	0.16	0.30	0.62	0.79	1.20	1.36	1.40	1.50	1.60	1.72	1.81	1.86	2.13	2,42	2.52	2.79	2.84	3.70	3.73	4.00	4.08	4.50	4.97	5.02	5.21	5.31	5.57	5.86	5.98	
mile	Old	0.16	0.3	0.62	0.79	1.2	1.36	1.4	1.5	1.6	1.71	1.8	1.85	2.12	2.41	2.51	2.78	2.83	3.69	3.72	3.99	4.07	4.49	4.95	5	5.19	5.29	5.55	5.84	5.96	

A STATE ASSESSMENT OF A STATE OF	1.00 2.00 milepoint 00 4.00 5.00 6.00		
9	0.00	Year 2002 to 2004	

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				Acc	E E	25566 06	25566 06	16154 06	87121 06	87121 06	77323 06	71425 06	82243 06	28455 06
	, , ,			~ ~										
	1/2008				, AD	4950	4950	4950	2955	2955	2955	2955	2955	2955
	3				ounty	53	53	53	53	53	53	53	53	53
	Ö				City County ADT	43440	43440	43440	26900	76900	76900	00692	76900	76900
-	$\left(\begin{array}{c} \\ \end{array} \right)$					\$	25 43	. 43	9/	76	76	76	9/	76
					Driver Fix Traff Surf Ped Intent Obj cntrl Cond	-	ر	-	,	-	8		Ø	•
	\bigcirc				Driver Fix Traff Surf Intent Obj cntrl Cond	2	ω.	<u> </u>	ω	m	ω	Ф	Ω	മ
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	Z IO		- 2005		Driver Intent	33	03	10	10	8	5	10	5	5
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			Page 1 of 1			_		82	96	66	<u>Q</u>	86	0	1>
			ď		₩ M	0.01	0.01	0.28	0.99	0.99	1.40	1.58	4.00	4.57
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		> / /		-11	070	0.1
ೆum Of Count	Acc Severity Cd					
Soll Type Cd	Coll Desc	1	2	3	4	Grand Total
02 -	HEAD ON (LFT)				1	1
02 Tota	ı	0	0	0	1	1
) 17	SINGLE VEHICLE	3	1	1	1	6
17 Tota		3	1	1	1	6
Grand Tota	1	3	1	1	2	7

UTAH DEPARTMENT OF TRANSPORTATION

Accident Types

Route No. 0017

Begin Milepoint 0

End Milepoint 6.1

End Year 2005

	Accident Type	Count	Percent
2	MV-MV	. 1	14.29
4	MV-BICYCLE	1	14.29
5	MV-ANIMAL(WILD)	1	14.29
D	MV - ANIMAL (DOMESTIC)	1	14.29
L	RAN OFF ROAD LEFT	2	28.57
R	RAN OFF ROAD RIGHT	1	14.29
	Total	7	100.00

UTAH DEPARTMENT OF TRANSPORTATION Surface Condition

Route No. 0017

Begin Milepoint 0

End Milepoint 6.1

End Year 2005

Surface Condition	Count	Percent
1 DRY	5	71.43
2 WET	2	28.57
Total	7	100.00

UTAH DEPARTMENT OF TRANSPORTATION Light Condition

Route No. 0017

Begin Milepoint 0

End Milepoint 6.1

End Year 2005

Light Condition	Count	Percent
1 DAYLIGHT	5	71.43
3 DARKNESS STREET OR HIGHWAY NOT	2	28.57
Total	7	100.00

SR-17 2005-26% MP 0.0-6.1

	4	eal	
Milepoint	2005	2006	Grand Total
0.01	1		
0.28	1		-
0.99	1		-
1.4	1		
1.58	1		-
3		1	
3.18		1	-
4	1		1
4.57	1		1
Grand Total	7	2	9

SB-17 2005

MP 0.6 - 6.1

6.11

ilepoint 02		17	Grand Total
0.01		1	
0.28		1	
0.99	1		-
1.4		1	1
1.58		1	
4		1	1
4.57		1	
Grand Total	1	6	

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	Sum Of Count	Acc Severity Cd	<001~	2004	T	1	141	U.U 6 6.
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	05 Total		0	1	0	0	0	1
	07	SIDE SWIPE (SAME)		1		1		2
	07 Total		0	1	0	1	0	2
	09	SAME DIR (1 LFT)			2		-	2
	09 Total		0	0	2	0	0	2
		SINGLE VEHICLE	13	7	2	1	1	24
	17 Total	-	13	7	2	1	1	24
	22	UTURN (1 STR)			1			1
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(_)	Grand Total		15	9	5	3	1	33
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UTAH DEPARTMENT OF TRANSPORTATION Accident Types

Route No. 0017

Begin Milepoint 0

End Milepoint 6.1

End Year 2004

	Accident Type	Count	Percent
1	MV-PEDESTRIAN	1	3.03
2	MV-MV	9	27.27
4	MV-BICYCLE	1	3.03
5	MV-ANIMAL(WILD)	3	9.09
7	MV-OTHER OBJECT	1	3.03
8	OVERTURNED IN ROADWAY	2	6.06
Α	OTHER NON-COLLISION	1	3.03
D	MV - ANIMAL (DOMESTIC)	1	3.03
L	RAN OFF ROAD LEFT	3	9.09
R	RAN OFF ROAD RIGHT	11	33.33
	Total	33	100.00

UTAH DEPARTMENT OF TRANSPORTATION Surface Condition

Route No. 0017

Begin Milepoint 0

End Milepoint 6.1

End Year

2004

Surface Condition	Count	Percent
1 DRY	31	93.94
5 ICY	2	6.06
Total	33	100.00

UTAH DEPARTMENT OF TRANSPORTATION Light Condition

Route No. 0017

Begin Milepoint 0

End Milepoint 6.1

End Year 2004

Light Condition	Count	Percent
1 DAYLIGHT	22	66.67
2 DAWN	2	6.06
3 DARKNESS STREET OR HIGHWAY NOT	7	21.21
4 DARKNESS STREET OR HIGHWAY LIG	1	3.03
5 DUSK	1	3.03
Total	33	100.00

SR-17 2002 - 2004 Mp 0.0 to 6.1

Milepoint	01	05	07	08	17	, v	22	26	Grand Total
0.16					1				
0.3				1					-
0.62			1			1			2
0.79						1			1
1.2						1			1
1.36						1			1
1.4						1			1
1.5						1			1
1.6	-					1			1
1.71						1			1
1.8						1			1
1.85						1			1
2.12						1	1	1	1
2.41	***					1	•••		1
2.51						1			1
2.78						1			1
2.83					1	1			1
3.69	7.02					1			1
3.72			-			1	·· ·····		1
3.99						1			1
4.07			-			1			1
4.49	,		1		1	2			3
4.95					2	2			2
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SR-17 2002 - 2004 MP 0.0 = 6.1

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	2002	2003	2004	Grand Total
0.16		1		1
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0.62		1	1	2
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1.4			1	1
1.5			1	1
1.6		1		1
1.71		1		1
1.8		1		1
1.85		1		1
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2.41		1		1
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5.19		1		1
5.29			1	1
5.55			1	1
5.84	1			1
5.96	1			1
and Total	7	19	7	33



Highway Reference

Mar 05

2005 6 2006

Page 1 of 2

03/14/2007 11:34:30 AM

Route Name

0017 P

From Route 9 in LaVerkin northerly to Route 15 at Anderson Junction.

Tiommodie	3 III Laveikiii IlOIIII	erly to Route 15 at Anderson Jun	ction.		
Accum. Mile	Feature Description	1			
0.000	Route Begins	'At Junction SR-9 Crossing at North Si County"	de Curb via State	e Street in LaVerki	n City "Washington
0.108	Road Right	To LaVerkin City Cemetery			
0.175	Street Crossing	630 North			
0.397	Street Crossing	740 North			
0.475	Incorporated Limit	LaVerkin City North Limits "Sign"			
0.540	Pipe Culvert				
0.637	Bridge - South End	LaVerkin Creek - 0F 589			
0.670	Bridge - North End	LaVerkin Creek - 0F 589			
0.871	Street Left	Chaparell Drive			
0.896	Pipe Culvert				
1.000 1.278	Milepost Pipe Culvert	1			<u>-</u>
1.318	Street Right	Cholla			
1.414	Pipe Culvert	Onolia			
1.581	Street Right	Shadow Creek Lane			
1.638	Street Left	To Toquerville City Cemetery			
1.656	Street Right	Treasure View Lane			
2.000	Milepost	2			
2.121	Street Right	Hunter Lane			
2.172	Pipe Culvert			start	End 6.040 6.060
2.276	Box Culvert		old New	0.00	6.040
2.399	Street Left	Pioneer Road	Als u)	0.00	6.060
2.526	Pipe Culvert		702-0	0.00	0.00
2.676	Pipe Culvert			0	.02
2.814	Pipe Culvert			Ŭ	
2.843	Street Left	Pioneer Road			
2.864	Incorporated Limit	Toquerville City South Limits "Sign"			
2.878	Street Left	Westfield Road via Toquerville Blvd.			
3,000	Milepost	3			
3.008	Street Left	Center Avenue			
3.133	Street Crossing	Pecan Avenue			
3.189	Street Right	Lilly Lane			`
3.258	Street Crossing	Old Church Street			
3.362	Street Left	Ash Creek Drive			
3.398	Street Right	Springs Drive			
3.436	Bridge - South End	Ash Creek - 0F 550			
3.466	Bridge - North End	Ash Creek - 0F 550			•
4.000	Milepost	4			
4.890	Pipe Culvert				
4.961	Pipe Culvert				
5 000	Milepost	5			
5.283	Pipe Culvert				
5.640	Road Left				
5.703	Pipe Culvert				



Highway Reference

Page 2 of 2

03/14/2007 11:34:30 AM

Route Name	0017 P	
Accum. Mile	Feature Description	
5.893	On Ramp	To I-15P
5.905	Pipe Culvert	
5.949	Road Crossing	Frontage Road
5.980	Off Ramp	From I-15P
.6.000	Milepost	
6.010	Overpass	I-15P
6.030	Overpass	I-15N
6.055	On & Off Ramp	I-15N
6.060	Route Ends	At I-15N On and Off Ramps at West Side Shoulder

DESCRIPTION:	PTION:		From Route 9 in LaVerkin northerly to Route 15 at Anderson .lunction	1
COUNTY:				PAGE 1 OF 2
Washington				ROUTE LNGTH
		400.04		6.040
CHFSET	H G	9714	2494204	STAMPARE
000	000	000	D 12-1-1-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	ADDRESS
	200.0	0.000	THE FIRST LAST U	0+0.00
0.000	0.000	0.000	Begin SR-17 at Jct. SR-9 at North Side Shoulder via State Street in LaVerkin "Washington County" - Functional Class Minor Arterial - Maintenance Station No. 4522/Hurricane	
0.105	0.105	0.105	Entrance Right to LaVerkin City Cemetery	0+0.00
0.174	0.069	0.174	630 North Crossing	0+0.11
0.410	0.236	0.410	Street Crossing - 740 North Left	0+0.17
0.613	0.203	0.613	Private Road Right	0+0.41
0.632	0.019	0,632	South End of SR-17 Structure over LaVerkin Creek	0+0.61
5.632	0.000	0.632	0F-589	0+0.63
0.665	0.033	0.665	North End of SR-17 Structure over La Verbin Croad	0+0.63
0.850	0.185	0.850		0+0.67
0.866	0.016	0 RGG	Street Left	0+0.85
1.006	0 140	1,006	Difference Death	0+0.87
0.148	0.148	1.154	Box Culvert Wash	1+0.00
0.306	0.158	1.312	Cholla Straet Right	1+0.15
0.568	0.262	1 574	Shadaw Crook I are Direkt	1+0.31
0,623	0.055	1 630	5	1+0.57
0.641	0010	1 647	Johnson Vienni Care Dieth	1+0.62
1 005	0.010	/+0.0	I reasure View Lane Hight	1+0.64
0.072	0.004	7017		2+0,00
0.07.5	0,00	4,004	T COMPECTION Hight	2+0.07
C 385	0.000	2 202	numer Lane right at Angle Discost Bood Left of Audi	2+0.11
1000 J	2770	T	Discontinuos Leitat Migie	2+0.38
020.5	2 6	T	riolieel noau Leit at Aligie	2+0.83
0.030	200.0	T	Westileld Hoad Left	. 2+0.86
0.870	0.120	T		3+0.00
0.010	0.010	\exists	Old Jackson Lane Road Left (Center Avenue)	3+0.01
0.134	0.124	3.123	Pecan Avenue Crossing (Offset)	3.0.12
0,189	0.055	3.178	Lily Lane Right	0.00
0.259	0/0/0	3.248	Old Church Avenue Crossing	3+0.18
		Т		3+0.26
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COUNTY:			STATE BOUTE SR.17R	PAGE 2 OF 2
Washington				ROUTE LNGTH
	148440	ACCUM		6,040
CFFSET	dial C	MILE	DRIVER-	STAMBARD
0.362	0.103	3,351	Ash Creek Drive Left	ALTHESS
0.399	0.037	3.388	Springs Drive Right	3+0.36
0.436	0.037	3.425	South End of SR-17 Structure over Ash Creek	3+0.40
0.436	0.000	3,425	0F-550	3+0.44
0.465	0.029	3,454	North End of SB-17 Structure over Ash Creek	3+0.44
0,615	0.150	3.604	Shady Lane Right	3+0.47
1.002	0.387	3,991	Balance Post 4	3+0,62
0.570	0.570	4.561	Tonianilla Chi/North Limits	4+0.00
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1 002	287	4 000	Olinipioved road Leit	4+0.62
0.321	0.00	1,000	Cathanan Laft to Clats On all 11	5+0.00
0.633	0.00	100	District Left to State Stuckpile	5+0.32
0.863	2000	0.020		5+0.63
0 940	0.577	0,000		5+0.86
0.969	0000	5 062	N.b. Oil rainip light 3.b. 3H-17 & East Frontage Hoad Left (Offset)	5+0.94
0.998	0.00	5 001	SD-15 On hallp	5+0.97
1,005	0.007	5.998	Baltague Dvs B	5+1.00
0.013	0.013	6.011	SR-15 S.B. Structure over SR-17	6+0.00
0.042	0.029	6.040	SB-15 S B On and Off Damne, End CD 17 of Wast Girls Of Little	6+0.01
	2=2:	2000	· I	6+0.04

State Route 59

UTAH DEPARTMENT OF TRANSPORTATION

to

Operational Safety Report

State Route

59

Length

22.21

Milepoint

0

22.21

	Number of		Fatal	Fatal		Fatalitys		
Year	Accidents	Rate	Accidents	Rate	Fatalitys	Rate	ADT	Severity
2005	32	1.46	0	0.00	0	0.00	2709	1.5
2004	38	1.73	0	0.00	0	0.00	2709	1.58
2003	40	1.82	2	9.11	2	9.11	2709	1.88
2002	23	1.05	1	4.58	1	4.58	2694	2.09

Accidents Totals and Averages

Expected

Total Acc Average ADT

133 2709 Average Acc Average Severity

Average Acc. Rate

33.25 1.76 1.70 1.52 1.46

SR-59 Accident History

2002 to 2004 Milepoint 0.00 to 22.16

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7.1	7.21	7.5	7.91	7.95	8.12	8.58	8.7	8.95	8.98	9.28	9:38	9.48	9.71	10.23	10.45	10.48	10.78	10.88	10.97	11.6	11.68	11.74	11.78	11.79	11.8	12.18	12.22	12.49	12.51	12.89	12.98	12.99

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SR-59 Accident History 2002 to 2004 Milepoint 0.00 to 22.16

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SR-59 Accident History

2005 Milepoint 0.00 to 22.21

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Coll Type	Cd	Coli Desc	1	2	3	4	5	Grand Total
01	-	HEAD ON	1			2		3
J 0	1 Tota		1	0	0	2	0	3
02		HEAD ON (LFT)		1		1	1	3
J 0	2 Tota		0	1	0	1	1	3
03		REAR END	3	2	1			6
<u></u> 0	3 Tota		3	2	1	0	0	6
05		SAME DIRECTION TURN LEFT REAREND				. 2		2
0	5 Tota		0	0	0	2	0	2
06		SIDE SWIPE (OPP)	2					2
0	6 Total		2	0	0	0	0	2
07		SIDE SWIPE (SAME)	3		1			3
Q 0.	7 Total		3	0	0	0	0	3
08		SAME DIR (RT)	2					2
() 0:	8 Total		2	0	0	0	0	2
09		SAME DIR (1 LFT)	4					4
<u></u> 0:	9 Total		4	0	0	0	0	4
10		SAME DIR (2 LFT)	2					2
) ¹⁽	0 Total		2	0	0	0	0	2
<u>11</u>		ANGLE (2 STR)	2		1	1		4
<u> </u>	1 Total		2	0	1	1	0	4
12		FROM RT (RT)	1					1
<u></u> 12	2 Total		1	0	0	0	0	1
ြဲ 13		FROM LFT (LFT)	1	1				2
<u> </u>	3 Total		1	1	0	0	0	2
14		FROM RT (LFT)	1					1
<u></u>	4 Total		1	0	0	0	0	1
17		SINGLE VEHICLE	38	6	9	5	2	60
<u> </u>	7 Total		38	6	9	5	2	60
18		BACKING	1	1				2
18	3 Total		1	1	0	0	0	2
22		UTURN (1 STR)	1	1				2
22	2 Total		1	1	0	0	0	2
26	l	PARKED	1			1		2
26	Total		1	0	0	1	0	2
Grand	l Total		63	12	11	12	3	101

UTAH DEPARTMENT OF TRANSPORTATION

Accident Types

Route No. 0059

Begin Milepoint 0

End Milepoint 22.21

End Year 2004

	Accident Type	Count	Percent
1	MV-PEDESTRIAN	1	0.99
2	MV-MV	37	36.63
5	MV-ANIMAL(WILD)	3	2.97
6	MV-FIXED OBJECT	2	1.98
7	MV-OTHER OBJECT	1	0.99
Α	OTHER NON-COLLISION	5	4.95
D	MV - ANIMAL (DOMESTIC)	1	0.99
L	RAN OFF ROAD LEFT	14	13.86
R	RAN OFF ROAD RIGHT	37	36.63
	Total	101	100.00

UTAH DEPARTMENT OF TRANSPORTATION Surface Condition

Route No. 0059

Begin Milepoint 0

End Milepoint 22.21

End Year

2004

Surface Condition	Count	Percent
	1	0.99
1 DRY	82	81.19
2 WET	7	6.93
4 SNOWY	5	4.95
5 ICY	6	5.94
Total	101	100.00

UTAH DEPARTMENT OF TRANSPORTATION Light Condition

Route No. 0059

Begin Milepoint 0

End Milepoint 22.21

End Year 2004

Light Condition	Count	Percent
1 DAYLIGHT	65	64.36
2 DAWN	2	1.98
3 DARKNESS STREET OR HIGHWAY NOT	28	27.72
4 DARKNESS STREET OR HIGHWAY LIG	3	2.97
5 DUSK	3	2.97
Total	101	100.00

SR-59 MP 0.60 T 22.21 2002 To 2004

Milepoint	2002	2003	2004	Grand Total
C		2	2	3
0.13		-	1	1
0.28			-	1
1	*****			1
1.05		1	I	1
1.8			1	1
1.95	1			1
2			1	1
2.16	1			1
2.4	1			1
2.5		1		1
2.6		1		1
2.7		1		1
3	1			1
3.5		1		1
4.2		1		:1
4.7		1		1
4.9			1	1
4.99	1			1
5.4		1		1
5.9		1		1
6	1			1
6.1	1			1
6.4		1		1
6.5			1	1
7	1	1	*	2
7.1			1	1
7.21		1		1
7.5		1		1
7.91			1	1
7.95		1		1
8.12	1			1
8.58			1	1
8.7	3	1		4
8.95		1		1
8.98			1	1
9.28			1	1
9.38			1	1
			1	

SR-59 Mp 0.60% 22.21 2002 t 2004

Milepoint	2002	2003	2004	Grand Total
9.48			1	1
9.71		1		1
10.23	1			1
10.45			1	1
10.48		1		1
10.78			1	1
10.88		1		1
10.97		1		1
11.6			1	1
11.68		1		1
11.74		1		1
11.78		1		1
11.79			1	1
11.8		1		1
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12.98			1	1
12.99			1	1
13.39		1		1
14.49			1	1
15.89			1	1
16.49		1		1
16.59		1		1
16.99	1			1
17.09	1			1
17.29		1		1
17.55			1	1
18			1	1
18.13		1		. 1
18.3			1	1
18.5		1		1
18.73	1			1
19.03	1			1
19.43		1		1
19.5			1	1

SR-59 MP 0,60 = 22.21 2002 - 2004

Milepoint	2002	2003	2004	Grand Total
19.63			1	1
19.88	1			1
19.92		1		1
20.03		1		1
20.23	1			1
20.33	1			1
20.73		1	1	2
20.93		1	1	2
21.94	1			1
21.96		1	2	3
22.06		, , , , , , , , , , , , , , , , , , ,	2	2
22.07			1	1
22.1			1	1
22.13			1	1
and Total	23	40	38	101

SR-59 MP 0.00 To 22.21 2002-2604

C011 Milepoint 01 02 03 05 06 07 08 09 10 11 12 13 14 17 18 22 26 Grand Total 0.13 0.28 1.05 1.8 1.95 1 2.16 2.4 2.5 1 2.6 2.7 3.5 4.2 4.7 4.9 4.99 5.4 1 5.9 1 6 1 6.1 1 6.4 1 6.5 1 2 7.1 7.21 1 7.5 7.91 7.95 1 8.12 8.58 1 8.7 2 1 8.95 1 8.98 1 9.28 1 9.38 1

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SR-59 Mg 0.00 & 22.21 2002 6 2004

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Milepoint	02	03	05	06	07	80	.09	10	11	12	13	14	17	18	22	26	Grand	Tota
9.48													1					
9.71											1							
10.23													1					
10.45													1					
10.48													1					
10.78					-	1												
10.88													1					
10.97													1					
11.6	1																	
11.68													1					
11.74													1					•
11.78													1					
11.79													1					
11.8													1					
12.18		1																
12.22	å.												1					
12.49													1				· · · ·	
12.51											^		1				102.002	
12.89		1																-
12.98													1				***************************************	•
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13.39													1				**	•
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15.89													1	\neg				-
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19.5	 				1			-	-	-	+		1		\dashv	_		1

SR-59 Mp 6.00 to 22.21 2002 - 2004

Milepoint	01	02	03	05	06	07	80	09	10	11	12	13	14	17	18	22	26	Grand Total
19.63														1				1
19.88		1																1
19.92														1				1
20.03														1		_		1
20.23														1				1
20.33														1				1
20.73			T.		1											1		2
20.93														1			1	2
21.94							ļ							1				1
21.96			1							2								3
22.06								1						1				2
22.07									1									1
22.1							1											1
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			Acc F		75747 06	75747 06	26934 06	26934 06	75471 06	92610 06	70734 06	96874 06	07331 06	07331 06	83752 06	23459 06	87928 06	31505 06	79728 06	79728 06	08891 06	08885 06	71422 06	26144 06	26144 06	31484 06
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		Page 2 of 2		MΡ	12.20	14.03	14.03	14.89	16.00	16.50	16.50	16.50	16.50	16.60	17.00	17.00	17.00	17.48	17.96	20.20	20.20	21.00	21.00	21.94	21.94

	The state of the s	v wo da.	al.			ヘツ
Sum Of Count	Acc Severity Cd					
Coll Type Cd	Coll Desc	1	2	3	4	Grand Total
01	HEAD ON	1				. 1
01 Tota		1	0	0	0	1
03	REAR END	1	2			3
03 Tota		1	2	0	0	3
04	SAME DIRECTION TURN RIGHT REAR END				1	1
04 Tota		0	0	0	1	1
06	SIDE SWIPE (OPP)	3				3
06 Tota		3	0	0	0	3
07	SIDE SWIPE (SAME)	1				1
07 Total		1	0	0	0	1
11	ANGLE (2 STR)			1		1
11 Total		0	0	1	0	1
17	SINGLE VEHICLE	15	5	2		22
17 Total		15	5	2	0	22
Grand Total		21	7	3	1	32

UTAH DEPARTMENT OF TRANSPORTATION

Accident Types

Route No. 0059

Begin Milepoint 0

End Milepoint 22.21

End Year 2005

	Accident Type	Count	Count Percent				
2	MV-MV	8	25.00				
5	MV-ANIMAL(WILD)	2	6.25				
7	MV-OTHER OBJECT	1	3.13				
8	OVERTURNED IN ROADWAY	1	3.13				
Α	OTHER NON-COLLISION	2	6.25				
L	RAN OFF ROAD LEFT	6	18.75				
R	RAN OFF ROAD RIGHT	12	37.50				
	Total	32	100.00				

UTAH DEPARTMENT OF TRANSPORTATION Surface Condition

Route No. 0059

Begin Milepoint 0

End Milepoint 22.21

End Year

2005

Surface Condition	Count	Percent
1 DRY	26	81.25
2 WET	4	12.50
4 SNOWY	1	3.13
5 ICY	11	3.13
Total	32	100.00

UTAH DEPARTMENT OF TRANSPORTATION Light Condition

Route No. 0059

Begin Milepoint 0

End Milepoint 22.21

End Year 2005

Light Condition	Count	Percent
1 DAYLIGHT	18	56.25
2 DAWN	3	9.38
3 DARKNESS STREET OR HIGHWAY NOT	8	25.00
4 DARKNESS STREET OR HIGHWAY LIG	2	6.25
5 DUSK	1	3.13
Total	32	100.00

SR-59 2005-2006 MP 0,00 p 22.21

	la = = =	Jear	la .
	2005	2006	Grand Total
0.14		1	
0.5	L		1
0.65		1	2
0.7	1		1
1.5		1	1
2.2	1		1
2.5			1
5.4	1		1
6.01	1	*****	1
6.2	1		1
8	1		1
8.5	1		1
8.7	1		1
9		1	1
9.5		1	1
9.73	1		1
9.81	1	i	1
10.6	1		1
10.7	1	1	2
11.85	1		1
12	1	- ***	1
12.2	1		1
14.03	1		1
14.3		1	1
14.89	1		1
16	1		1
16.5	2		2
16.6	1		1
17	2		2
17.48	1		1
17.96	1		1
20.02		1	1
20.2	1		1
21	1		1
21.94	1		1
22.2	1		1
	• 1	į.	11

SR-59 2005 MP 0.00 to 22.21

Coll.

	,			-01				
	01	03	04	06	07	11	17	Grand Total
0.5				1				
0.65								1
0.7							1	1
2.2							1	1
2.5							1	1
5.4							1	1
6.01		1						1
6.2							1	1
. 8							1	1
8.5							1	1
8.7							1	1
9.73					1			1
9.81							1	1
10.6							1	1
10.7							1	1
11.85							1	1
12							1	1
12.2							1	1
14.03		1						1
14.89							1	1
16							1	1
16.5		1					1	2
16.6							1	1
17				1			1	2
17.48							1	1
17.96							1	1
20.2	1							1
21				1				1
21.94						1		1
22.2							1	1
Grand Total	1	3	1	3	1	1	22	32



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Route Name

0059 P

From the Utah-Arizona state line northwesterly to Boute 9 in Hurricane

From the U	tah-Arizona state line	e northwesterly to Route 9 in H	urricane.			
Accum. Mile	Feature Description	1				
0.000	Route Begins	At Utah/Arizona State Line at Pave	ment Change via S	tate Street in Hilldale	"Washington	
0.007	Street Crossing	County" Uzona Ave (600 North)				
0.140	Street Crossing	Field Ave (700 North)				
0.279	Street Right	Utah Ave (800 North)				
0.364	Street Right	Cottonwood Street (1300 West)				
0.464	Pipe Culvert					
0.657	Street Crossing	Mullberry Street (1500 West)				
0.734	Pipe Culvert					
0.813	Pipe Culvert					
1.000 1.176	Milepost Pipe Culvert	1				
1.238	Incorporated Limit	Hildale City North Limits "Sign"		CT Y	End L 22.159 22.206	enate
1.289	Pipe Culvert	rindale Ony North Emile Sign		Start		977
1.476	Pipe Culvert			0.00	22.159	22.159
1.560	Box Culvert		old New		·	01
1.663	Pipe Culvert			0.00	22.206	22.12.06
1.890	Pipe Culvert		New			.047
2.000	Milepost	2	ST COLUMN	Ô	.047	17
2.086	Pipe Culvert		D)FF			
2.090	Pipe Culvert		٠,			•
2.226	Box Culvert					
2.458	Pipe Culvert					
2.691	Pipe Culvert					
3.000 3.035	Milepost Box Culvert	3				
3.384	Pipe Culvert					
3.402	Street Left	Canaan Way				
3.499	Pipe Culvert	,				
3.594	Pipe Culvert					
3.658	Pipe Culvert					
3.890	Pipe Culvert					
3.953	Pipe Culvert					
4.000	Milepost	4				
4.072	Box Culvert				Annual Contract of the Contraction of the State Contract of the St	
4.187	Pipe Culvert					
4.397	Pipe Culvert					
4.553	Pipe Culvert	D. LEN AND NO.				
4.739 4.796	Road Crossing Pipe Culvert	Bubbling Well Lane				
4.790	Pipe Culvert					
4.970 5.000	Milepost					
5.004	Pipe Culvert					
5.116	Road Right					
5.135	Box Culvert					
3.100	DON GUIVEIL					



Highway Reference

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Route Name	0059 P	
Accum. Mile	Feature Description	
5.299	Pipe Culvert	
5.479	Pipe Culvert	
5.600	Pipe Culvert	
5.630	Road Crossing	
5.724	Pipe Culvert	
5.789	Pipe Culvert	
5.883	Pipe Culvert	
5.947	Pipe Culvert	
6.000	Milepost	6
6.008	Pipe Culvert	
6.072	Pipe Culvert	
6.367	Pipe Culvert	
6.471	Box Culvert	
6.840	Pipe Culvert	
6.996	Pipe Culvert	
7.000	Milepost	7
7.050	Pipe Culvert	
7.314	Box Culvert	
7.494	Pipe Culvert	
7.650	Pipe Culvert	
7.922 8:000	Underpass	
8.132	Milepost Road Crossing	8: Big Plain Junction - Scenic Backroad Right
8.392	Pipe Culvert	
8.722	Road Left	Little Creek Mountain
9.000 9.246	Milepost Box Culvert	9 Goulds - 0H9862
9.357	Pipe Culvert	
9.538	Pipe Culvert	
9.639	Box Culvert	
9.735	Road Left	Paradise Canyon
9.834	Pipe Culvert	
10.000 10.049	Milepost Pipe Culvert	10 %
10.201	Pipe Culvert	
10.324	Road Right	Little Creek Station
10.370	Pipe Culvert	
10.446	Road Left	
10.578	Box Culvert	
11.000	Milepost	-11
11.136	Pipe Culvert	
11.181	Pipe Culvert	
11.314	Pipe Culvert	
11.658	Box Culvert	
11.829	Road Left	Apple Valley Drive



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Route Name	0059 P	
Accum. Mile	Feature Descript	on
11.861	Pipe Culvert	
11.985	Pipe Culvert	
12.000 12.131	Milepost Pipe Culvert	12
12.220	Pipe Culvert	
12.435	Pipe Culvert	
12.510	Pipe Culvert	
12.645	Road Left	
12.758	Pipe Culvert	
12.974	Box Culvert	Goulds Wash - 0E2052
13.000	Milepost	13
13.131	Pipe Culvert	
13.242	Pipe Culvert	
13.362	Pipe Culvert	
13.418	Pipe Culvert	
13.493	Road Left	
13.550	Pipe Culvert	
13.664	Pipe Culvert	
13.728	Pipe Culvert	
13.832	Pipe Culvert	
13.879	Road Left	
13.887	Pipe Culvert	
13.965	Pipe Culvert	
14.000 14.062	Milepost Box Culvert	14.
14.151	Pipe Culvert	
14.206	Pipe Culvert	
14.248	Pipe Culvert	
14.310	Pipe Culvert	
14.404	Pipe Culvert	
14.546	Pipe Culvert	
14.661	Pipe Culvert	
14.703	Pipe Culvert	
14.765	Pipe Culvert	
14.839	Pipe Culvert	
14.891	Pipe Culvert	
14.957	Pipe Culvert	
15.000 15.033	Milepost Pipe Culvert	
15.105	Pipe Culvert	
15.155	Pipe Culvert	
15.218	Pipe Culvert	
15.270	Pipe Culvert	
15.327	Pipe Culvert	
15.356	Pipe Culvert	



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Route Name	0059 P	
Accum. Mile	Feature Description	
15.422	Pipe Culvert	
15.472	Pipe Culvert	
15.607	Pipe Culvert	
15.666	Pipe Culvert	
15.668	Pipe Culvert	
15.836	Pipe Culvert	
15.989	Pipe Culvert	
16,000	Milepost	16
16.131	Pipe Culvert	
16.202	Pipe Culvert	
16.342	Pipe Culvert	
16.377	Pipe Culvert	
16.486	Pipe Culvert	
16.594	Pipe Culvert	
16.631	Pipe Culvert	
16.653	Pipe Culvert	
16.733	Pipe Culvert	
16.791	Pipe Culvert	
16.853	Pipe Culvert	
16.920	Pipe Culvert	
17,000	Milepost	17 gradients 2 decreases 17 mass 17 m
17.011 17.127	Pipe Culvert	
17.127	Road Right	
17.246	Pipe Culvert	
17.414	Pipe Culvert	
18,000	Pipe Culvert Milepost	£18
18.093	Pipe Culvert	Set Use the set of the
18.176	Pipe Culvert	
18.442	Pipe Culvert	
18.707	Pipe Culvert	
18.805	Pipe Culvert	
18.810	Road Left	
18.903	Fed Aid Route Right	Route 3197
18.943	Box Culvert	
19.000 19.056	Milepost Pipe Culvert	19 - 19
19.230	Pipe Culvert	
19.348	Pipe Culvert	
19.374	Off Ramp	Brake Test Area
19.498	On Ramp	Brake Test Area
19.514	Incorporated Limit	Hurricane City South Limits "Sign"
19.675	Pipe Culvert	- -
19.742	Pipe Culvert	
19.919	Pipe Culvert	



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Route Name

0059 P

Accum. Mile	Feature Description	
20.000 %	Milepost	20
20.112	Box Culvert	
20.280	Box Culvert	
20.387	Pipe Culvert	
20.504	Pipe Culvert	
20.579	Pipe Culvert	
20.846	Pipe Culvert	
20.856	Off Ramp	Runaway Truck Ramp
20.912	Pipe Culvert	
21.000 >	Milepost	21)
21.051	Underpass	
21.199	Street Left	600 East
21.479	Street Left	
21.479	Pipe Culvert	
21.576	Pipe Culvert	
21.778	Pipe Culvert	
21.921	Pipe Culvert	
22.000	Milepost	. 22°
22.016	Street Crossing	100 East
22.116	Street Crossing	Main Street
22.116	Route Turns Right	Onto Main Street
22.206	Route Ends	At Junction SR-9 (State Street) at South Side Curb

STATE ROUTE SR-59B

DESCRIPTION:	TION:		From the Utah-Arizona state line northwesterly to Route 9 in Hurricane.	DAGE 1 OF 2
COUNTY:				DOLITE I NOTE
Washington				nooie Ewaln
	OFFSET	ACC1#4		22.139
OFFSET	DIFF.	##IFE	REMARK	S AND PARTY
0.000	0.000	0:000	Halarence Post 0	20000
0.000	0.000	0.000	Begin SR-59 at Utah/Arizona State Line at Pavement Change in Washington County - Functional Class Minor Arterial - Maintenance Station No. 4522/Huricane	00.040
600.0	600'0	0.009	Uzona Avenue Crossing (600 North)	0+0.00
0.139	0.130	0.139	Field Avenue Left (700 North)	0.010
0.282	0.143	0.282	Utah Avenue Right (800 North)	0+0.14
0.365	0.083	0.365	Road Right	0+0.28
0.658	0.293	0.658	Road Left at Angle	0+0,3/
1.00.1	0.343	1.001	Rélemente Pout I	0+0.66
0.561	0.561	1.562	Box Culvert Underpass	1+0.00
1.002	0.441	2.003	Halacanna Poet 2	1+0.56
0.083	0,083	2.086	Double Pipe Culvert	2+0.00
1.001	0.918	3 004	Deliterate Designation	2+0,08
0.395	0.305	2 200	Bood Jath	3+0.00
986 0	0.601	2000	Driven Left	3+0.40
1.005	1.005	5.005	Foldington Divel 6	4+0.00
0.097	0.097	5.102	Boad Birth	5+0.00
0.308	0.211	5.313	Unimproved Road Left	5+0.10
0.615	0.307	5.620	Unimproved Boad Left	5+0,31
1.002	0.387	6.007	Batterance Post 6	5+0.62
1.002	1.002	7.009	Baletence Post 7	6+0.00
0.891	0.891	7,900	Box Culvert Underpass	7+0.00
1.003	0.112	8.012	Halistence Post 8	7+0.89
0.108	0,108	8.120	Big Plain Junction Crossing at Angle - Scenic Rackmad Birtht	8+0.00
0.688	0.580	Τ		8+0.11
696.0	0.281		Helaistre Post 9	8+0.69
0.240	0.240		Goulds Box Culvert Wash	9+0.00
0.240	000'0		0H-9862	9+0.24
		T		9+0.24

ROUTE LNGTH PAGE 2 OF 3 STANDARD ADDRESS 10+0.00 11+0.82 10+0.43 12+0.00 12+0.74 22.159 9+0.73 10+0.32 11+0.00 13+0.00 12+0.61 12+0.74 13+0.86 15+0,00 15+0.24 15+0.63 16+0.00 16+0.85 17+0.09 13+0.11 14+0.00 14+0.63 17+0.00 18+0,00 18+0.86 19+0.51 20+0.00 18+0.76 19+0.00 19+0.46 20+0.64 STATE ROUTE SR-59B REMARK Road Left to Paradise Canyon Ranch Road Right to Little Creek Station Entrance Right to Brake Test Area Apple Valley Drive Left at Angle Double Pipe Culvert Wash Goulds Box Culvert Wash Hurricane City/East Limits Road Crossing (Offset) Unimproved Road Left Unimproved Road Right Unimproved Road Right Relatence Post 10 Reference Post 12 Retarence Post 11 Reference Post 13 Reference Post 15 Haterance Post 14 Reference Post 16 Reference Post 17 Balaranca Post 18 Helerence Post 19 Reference Post 20 Private Road Right Private Road Left Private Road Left Private Road Left Road Right Road Left Road Left 0E-2052 ACCUR 10,300 10.416 10.986 11.807 11.988 12,602 12.726 12.726 13.096 13.850 14.620 9.711 9.984 12,991 13.993 14.996 15.240 15.627 16.848 16,999 18.766 15.997 18.002 17.087 18.858 18.933 19.442 20.573 19,397 19.934 138440 0.316 OFF 0.490 0.116 0.570 0.273 0.821 0.181 0.614 0.124 0.000 0.265 0.105 0.754 0.143 0.376 0.627 0.244 0.370 0,915 0.387 0.851 0.088 0.092 0.075 0.151 0.764 0.464 0.045 0.492 0.639 Washington COUNTY: OFFSET 0.730 .003 0.316 0.432 1.002 1.002 0.614 0.738 0.821 0.738 1.003 0.105 0.859 1,002 1.003 0.627 0.244 0.631 1.002 1.001 0.088 0.851 1.003 0.764 0.856 0.931 0.464 0.509 0.639 1.001